LAMAR UNIVERSITY-BEAUMONT
0 00 01 1022138 9

OFFICIAL GAZETTE

OF THE

DISCARDED

UNITED STATES PATENT OFFICE

VOLUME 299

JUNE

1922

LIBRARY OF
LAMAR STATE COLLEGE OF TECHNOLOGY

WASHINGTON
GOVERNMENT PRINTING OFFICE
1922

Digitized by the Internet Archive
in 2025

https://archive.org/details/bwb_T5-CFU-811

CONTENTS.

	Page.
PATENTS AND DESIGNS GRANTED, June 6, 13, 20, 27	3, 239, 467, 665
TRADE-MARKS PUBLISHED AND REGISTERED, June 6, 13, 20, 27	185, 407, 623, 819
LABELS AND PRINTS REGISTERED, June 6, 13, 20, 27	231, 655, 867
DECISIONS OF THE COMMISSIONER OF PATENTS, June 6, 13, 20, 27	233, 459, 659, 869

ANNOUNCEMENTS.

	Page.
ADVERSE DECISIONS IN INTERFERENCE—Clausen, Henry P., 1,288,837 and 1,297,100	872
Hazeltine, Louis Alan, 1,379,184	1
Olson and Trbojevich, 1,384,913	872
Van Berkel, F. M., 1,274,958	872
Winklepleck, Solomon A., 1,364,537	465
APPLICATIONS—Access to pending	237
Condition of pending	2, 238, 466, 664
Examination of—*Order No. 2,749*	1
CLASSIFICATION OF INVENTIONS—Changes in—*Order No. 2,752*	464
Order No. 2,753	464
Order No. 2,759	663
COMMUNICATIONS TO THE PATENT OFFICE—Rule 8	465
DISCLAIMERS—Andrén, August	872
DRAWINGS—Marking for identification—Rules 38 and 52	237
INTERFERENCE NOTICES—Conn and Moran	465, 663
Gudebrod, Christian E	1
Starbuck, William H	465, 663
Wilk & Company, J. W	1, 237, 465
PATENT LAWS—Nolan Act—Reciprocity of Hungary Laws—*Order No. 2,754*	237
Reciprocity of the Kingdom of Serbs, Croats, and Slovenes laws—*Order No. 2,748*	1
PATENT SUITS—List of notices	235, 463, 870
PATENTS—List of adjudicated	235, 462, 870
RULES OF PRACTICE OF THE UNITED STATES PATENT OFFICE—Amendment to—*Order No. 2,751*	237
SECRETARY OF THE INTERIOR—Certification by	465
TRADE-MARK—Opposition Notice—Estasi Perfumery Co., Inc	236

TABLE OF CASES REPORTED.

	Page.
[d] Automatic Pencil Sharpener Co. *v.* Boston Pencil Pointer Co	659
* Doulett *v.* Muther. Doulett *v.* Glines. Deitsch *v.* Doulett. Glines *v.* Doulett. Deitsch *v.* Wales. Deitsch *v.* Smith	869
[d] Locomotive Stoker Co. *v.* Mechanical Const. Co	233
* McIlhenny's Son, E., *v.* B. F. Trappey & Sons	461
[d] United Shoe Machinery Co. *v.* L. Q. White Shoe Co.	459

[Decisions of the Court of Appeals of the District of Columbia are indicated by a star (*); of the United States Circuit Court of Appeals by the letter ([d]).]

ERRATA.

1,419,048, page 160, in heading, assignment, residence of assignee, for "Framington, Mass.," read *Framingham, Mass.*

1,419,126, page 239, in heading, assignment, after the word "assignor" insert the words *of one-half.*

1,420,397, page 564, in heading, assignment, name of assignee, for "Treyn, Brassert & Company" read *Freyn, Brassert & Company.*

1,420,616, page 609, in heading, name of inventor, for "Laurence J. May" read *Lawrence J. May.*

Patents Nos. 1,418,268 to 1,419,125.

THE OFFICIAL GAZETTE

OF THE

United States Patent Office.

Texas 15

Vol. 299—No. 1. TUESDAY, JUNE 6, 1922. Price—$5 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $5.00 per annum; single numbers, 10 cents each.

Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CONTENTS.

	Page.
Issue of June 6, 1922	1
Reciprocity of the Laws of the Kingdom of the Serbs, Croats, and Slovenes Recognized	1
Examination of Applications	1
Adverse Decisions in Interference	1
Interference Notices	2
Applications Under Examination	3
Patents Granted	176
Reissues	178
Designs	185
Trade-Marks Published (210 Applications)	217
Trade-Mark Registrations Granted	231
Labels	232
Prints	
Decisions of the U. S. Courts—	
Locomotive Stoker Co. *v.* Mechanical Const. Co.	233
Adjudicated Patents	235
Patent Suits	235
Notice of Opposition	236

Issue of June 6, 1922.

Patents	858—No.	1,418,268 to No.	1,419,125, inclusive.
Designs	32—No.	61,026 to No.	61,057, inclusive.
Trade-Marks	323—No.	155,593 to No.	155,915, inclusive.
Labels	50—No.	24,431 to No.	24,480, inclusive.
Prints	10—No.	6,144 to No.	6,153, inclusive.
Reissues	9—No.	15,370 to No.	15,378, inclusive.
Total	1282		

Reciprocity of the Laws of the Kingdom of the Serbs, Croats, and Slovenes Recognized.

(Order No. 2748.)

Department of the Interior,
United States Patent Office,
Washington, D. C., May 25, 1922.

Notice is hereby given that the laws of the Kingdom of the Serbs, Croats, and Slovenes are recognized as affording to citizens of the United States privileges substantially reciprocal to the privileges accorded by the Nolan act of March 3, 1921 (41 Stat. L., 1313), and that consequently all the privileges specified in said act will be extended to its citizens.

Examination of Applications.

(Order No. 2,749.)

Department of the Interior,
United States Patent Office,
Washington, D. C., May 27, 1922.

In view of the fact that there are from 12,000 to 15,000 applications abandoned each year after either one or two rejections, and even more after further rejections, those portions of the rules and decisions which require Examiners to make an action on formal matters are hereby suspended (until further notice), and it is hereby ordered that—

(1) When the specification and claims are such that the invention may be readily understood, Examiners should make no requirements on matters of form in the specification and claims until some claim is found to be allowable, or appeal is taken. In every such case the first letter should say in substance:

"On allowance of any claim or upon appeal revision as to form may be required (Order 2,749)."

In every instance requirements to correct informalities in the oath, or inconsistent signatures, should be made in the first letter.

(2) When the invention may be readily understood the first action should be complete and thorough as to merits and, where any claim is allowed, also complete as to form.

(3) When an application is in condition for allowance, or appeal, except as to matters of form, the case will be considered special.

THOMAS E. ROBERTSON,
Commissioner.

Approved May 27, 1922.

(Signed) F. M. GOODWIN,
Assistant Secretary.

Adverse Decisions in Interference.

Patent No. 1,379,184.

On May 2, 1922, a decision was rendered that Louis Alan Hazeltine was not the first inventor of the subject-matter covered by claim 2 of his Patent No. 1,379,184, subject, "Shielding radio apparatus," and no appeal having been taken within the time allowed such decision has become final.

Interference Notices.

Department of the Interior,
United States Patent Office,
Washington, D. C., May 10, 1922.

Christian E. Gudebrod, his heirs, assigns, or legal representatives, take notice:

An interference having been declared by this Office between the application of Smith & Dove Mfg. Co., Andover, Mass., for registration of a trade-mark and trade-mark registered February 19, 1895, No. 26,104, to Christian E. Gudebrod, 644 Broadway, New York, N. Y., and a notice of such declaration sent by registered mail to Christian E. Gudebrod at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Gudebrod, his heirs, assigns, or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the Official Gazette for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

Department of the Interior,
United States Patent Office,
Washington, D. C., May 27, 1922.

J. W. Wilk & Company, their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Seaboard Commercial Company, of Second Avenue and Yealer Way, Seattle, Wash., for registration of a trade-mark and trade-mark registered January 5, 1915, No. 101,660, to J. W. Wilk & Company, of 1720–22–24 West Polk Street, Chicago, Ill., and a notice of such interference sent by registered mail to said J. W. Wilk & Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said J. W. Wilk & Company, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the Official Gazette for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

Condition of Applications Under Examination at Close of Business May 27, 1922.

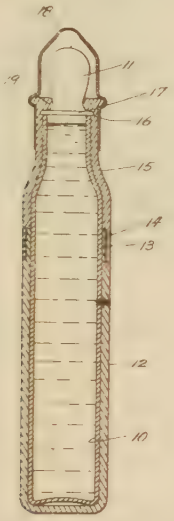
(Total number of applications waiting action, excluding Trade-Mark division, 67,726; Trade-Mark division, 9,007. Oldest new case, Mar. 5; oldest amended, Apr. 1, 1921. The dates given are 1921 except where * indicates 1922.)

Room No.	Divisions, Examiners, and subjects of Inventions.	Oldest new application awaiting office action. New.	Oldest amended application awaiting office action. Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	Nov. 14	Dec. 3	925
128	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants, and Flowers.	June 13	July 5	1,906
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Aug. 20	June 16	989
234	4. MERRITT, A. D., Conveyers; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Aug. 6	*Feb 20	1,539
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Aug. 6	Aug. 3	1,108
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Aug. 20	*Jan. 6	1,289
312	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes	Aug. 24	Nov. 7	2,372
133	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet-Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	*Feb. 25	*Apr. 10	883
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	May 12	*Apr. 8	1,082
235	10. MITCHELL, T. H., Land Vehicles; Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	Nov. 1	*Mar. 10	1,081
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	*Jan. 5	*Feb. 11	641
322	12. PIERCE, P. P., Machine Elements	Nov. 5	*Jan. 16	1,202
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	May 11	*Jan. 10	1,891
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	Aug. 9	*Feb. 27	957
308	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	June 15	July 30	2,046
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	May 26	June 18	2,192
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Aug. 12	Dec. 23	1,384
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices; Steam and Vacuum Pumps.	Mar. 24	May 5	2,370
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Rheostats and Humidostats.	May 31	Sept. 3	1,256
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Nov. 23	Dec. 1	1,714
212	21. THURBER, W. L., Continuous-Strip Feeding; Textiles; Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	June 22	Sept. 19	950
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making.	Sept. 27	*Jan. 21	496
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Apr. 11	Oct. 16	840
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	July 22	*Jan 7	1,207
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*Mar. 13	*Mar. 21	460
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Aug. 29	Nov. 3	1,615
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Aug. 13	Sept. 12	1,938
225	28. BENSON, A. R., Internal-Combustion Engines	Aug. 26	Aug. 13	1,773
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Aug. 8	*Mar. 20	656
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	Nov. 16	*Mar. 17	1,443
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	May 27	Aug. 3	2,157
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	July 15	*Jan. 16	1,070
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Oct. 19	Dec. 14	967
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	*Mar. 1	*Mar. 3	482
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	*Jan. 3	*Feb. 24	898
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	Dec. 28	Nov. 17	1,830
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	June 28	June 14	1,977
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Oct. 19	Oct. 15	1,697
220	39. COWLES, A. W., Fluid-Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Apr. 19	May 3	2,271
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	May 31	July 30	3,013
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	*Jan. 6	Dec. 7	747
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	June 27	June 13	1,933
382	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	July 8	Aug. 18	1,898
253	44. SHAFFER, C. H., Air Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration; Ships.	Sept. 24	*Mar. 24	541
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Sept. 24	*Feb. 7	1,263
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Sept. 30	Nov. 3	1,353
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems.	July 22	Nov. 18	1,322
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	Mar. 5	Apr. 1	2,704
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, JR.			
	Trade-Marks	Sept. 12	Jan. 30	6,053
	Designs	Sept. 20	Dec. 23	2,739
	Labels and Prints	May 1	May 15	215

PATENTS

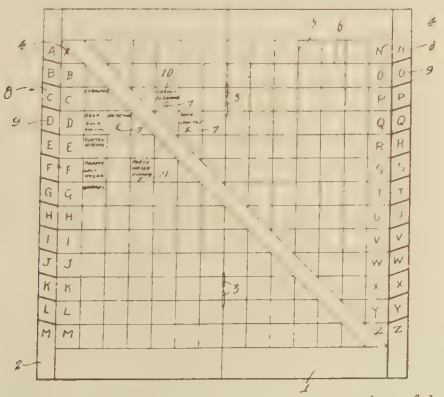
GRANTED JUNE 6, 1922.

1,418,268. NURSING BOTTLE. WILLIAM S. ALVEY, Philadelphia, Pa. Filed Apr. 21, 1920. Serial No. 375,614. 1 Claim. (Cl. 215—11.)



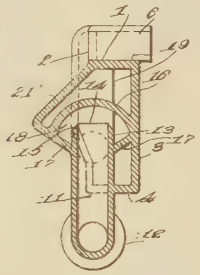
The combination of a conventional nursing-bottle with a sectional protective-jacket of rigid material of which one part comprises an integral body-portion having a permanently closed bottom upon which said bottle abuts said jacket snugly enveloping the major portion of said bottle the inner end of said jacket part being screw threaded and of which the other part comprises an open ended integral neck-portion which completely envelops the bottle neck and a part of the bottle body the extreme outer end of said neck-portion being provided with an internal annular flange having a convexed surface and the opposite end of said neck portion being screw-threaded for attachment to the body-jacket, there being an internal, annular groove of circular cross-section intermediate said flange and said screw-threaded end and a conventional nipple having a flange seated within the groove of said neck-portion with the nipple proper extended through and snugly fitting the said convexed flange whereby when the jacket parts are screwed together said convexed flange clamps the nipple flange against the rim of the bottle mouth.

1,418,269. DIRECTORY. FRANK W. BACON, Los Angeles, Calif. Filed Nov. 10, 1920. Serial No. 423,093. 4 Claims. (Cl. 283—37.)



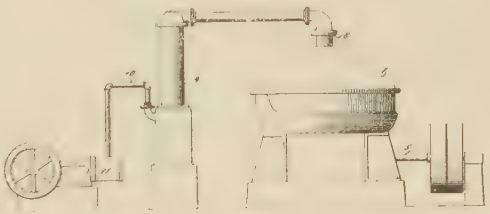
1. In a directory, the combination of a series of leaves, the uppermost leaf having different marginal index characters and being provided in alinement with said index characters with the corresponding index terms of various subjects of information arranged in successive columns, the other leaves having tabs respectively alined with the index characters and each leaf bearing information corresponding with at least one of the index characters that is alined with its tab.

1,418,270. MANIFOLD. ALFRED A. BAILEY, Spokane, Wash. Filed Aug. 12, 1920. Serial No. 403,022. 2 Claims. (Cl. 125—122.)



1. A manifold comprising a hollow casing having a plurality of connections opening to the exhausts of the engine, a supply pipe leading from the carburetor and having a discharge end, a deflecting and vaporizing dome superposed above and extending downwardly over and annularly about and below said discharge end, the walls of said casing enclosing and annularly joining the lower edge of said dome and enclosing and joining said supply pipe annularly below the discharge end of the latter thereby forming with said dome and pipe a chamber annularly surrounding said pipe above and below the discharge end thereof, and inlet pipes having their intake ends opening to said chamber below the discharge end of said supply pipe, whereby the vapor deflected downwardly by said dome will be forced to traverse a maximum area of said dome before reaching said supply pipes.

1,418,271. TREATMENT OF RUBBER. WALLACE APPLETON BEATTY, New York, N. Y. Filed June 6, 1918. Serial No. 238,436. 30 Claims. (Cl. 18—49.)

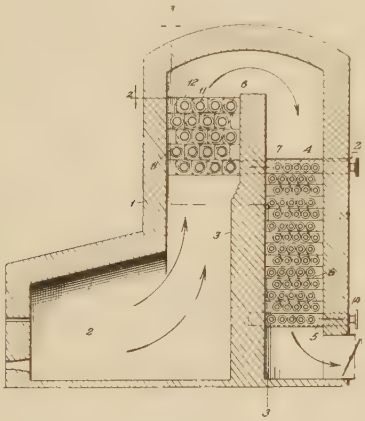


1. A process for the treatment of crude rubber to produce a chewing gum base, which consists in dissolving nitrogenous substances therefrom, removing the resulting solution from the rubber, and removing volatile substances by subjecting the rubber to heat and the action of inert gas.

1,418,272. OIL HEATER FOR TOPPING STILLS. JOHN E. BELL, Brooklyn, N. Y., assignor to Power Specialty Company, New York, N. Y., a Corporation of New York. Filed June 10, 1920. Serial No. 387,970. 5 Claims. (Cl. 222—355.)

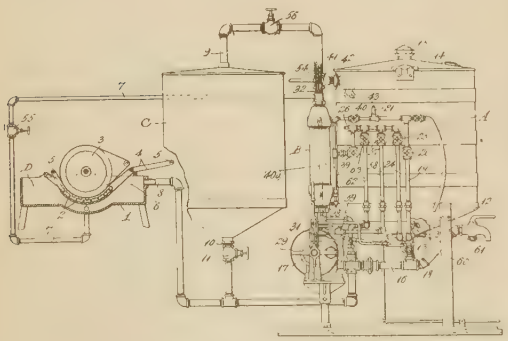
1. In an apparatus of the kind described, the combination of two heating chambers connected in series, a bank

of tubes arranged in the chamber furthest from the fire, a second bank of tubes in the other chamber so disposed above the level of the bank in the first named chamber that oil in flowing from one bank to the other will not be trapped, the tubes in the first bank being connected so as



to secure a flow of oil counter to that of the hot gases, and the tube in the lowest row of the second bank being connected with the tubes of the top row of the first bank so that the oil from the first bank flows through them with the flow of hot gases.

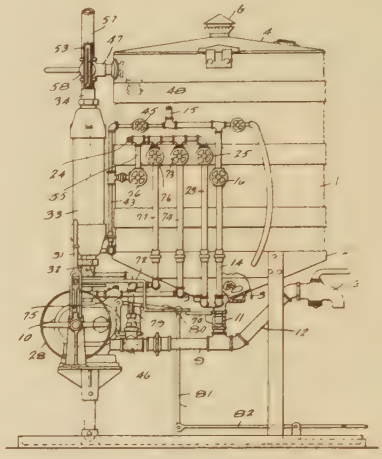
1,418,273. APPARATUS FOR HANDLING STARCH MIXTURE. DANA H. BENJAMIN, Cleveland Heights, Ohio, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 10, 1917. Serial No. 190,676. 20 Claims. (Cl. 68—28.)



20. Starching apparatus, comprising a starch cooker, a temperature correcting device, a starching machine, and conduits connecting said cooker, device and machine.

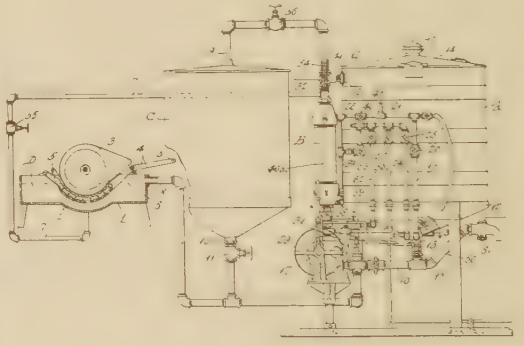
1,418,274. METHOD OF PREPARING STARCH. DANA H. BENJAMIN, Cleveland Heights, Ohio, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 10, 1917. Serial No. 190,677. 10 Claims. (Cl. 134—19.)

10. The method of creaming starch mixture, consisting in withdrawing a portion of the mixture from a vessel containing it, spraying the withdrawn mixture into the upper



portion of the vessel above the level of the mixture therein, and simultaneously cooling said mixture.

1,418,275. METHOD OF HANDLING STARCH MIXTURE. DANA H. BENJAMIN, Cleveland Heights, Ohio, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 10, 1917. Serial No. 190,675. Renewed Nov. 12, 1921. Serial No. 514,823. 6 Claims. (Cl. 68—28.)

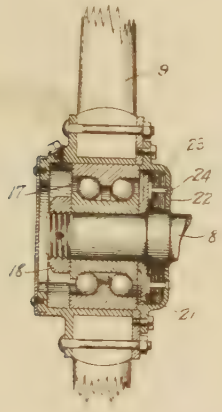


1. The method of supplying starch mixture to starching machines, consisting in agitating the mixture in the vessel, simultaneously circulating a portion of said mixture from said vessel to the starching machine and back again, and simultaneously correcting any departure of the mixture from normal temperature to thereby maintain its temperature substantially uniform.

1,418,276. AXLE CONSTRUCTION. CECIL M. BILLINGS, Brooklyn, N. Y. Filed June 29, 1920. Serial No. 392,696. 4 Claims. (Cl. 64—22.)

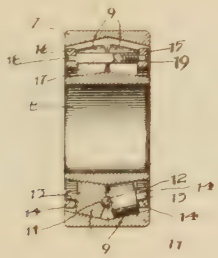
1. Oil retaining means for bearings comprising in combination with a shaft and a member rotatably engaged thereon and providing an oil reservoir, an outwardly pro-

jecting annular flange fixed to the shaft and an inwardly projecting annular washer of absorbent material carried



by the rotatable member and slidingly engaging the face of the outwardly projecting flange.

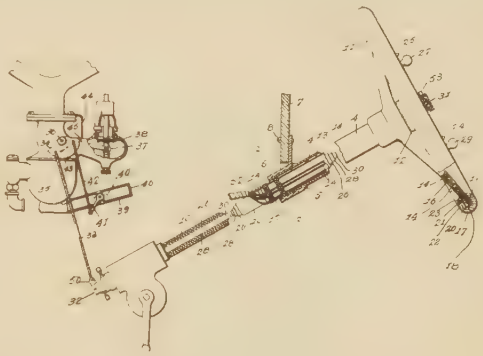
1,418,277. ROLLER BEARING. JOHN B. BIRGH, Chicago, Ill. Filed June 7, 1920. Serial No. 387,166. 2 Claims. (Cl. 64—62.)



2. In a roller bearing, the combination of a single piece outer retaining member having its inner periphery outwardly inclined from its edges, of a plurality of oppositely tapered rollers located on the inclined surfaces of said member in pairs with their larger ends facing each other and grouped together laterally, a single piece inner retaining member adapted to be inserted eccentrically into the said outer member and then placed in concentric relation to said outer member for the purpose of permitting the rollers to be placed in spaced relation around the inner member, and means interposed between the rollers for holding them in spaced relation to one another.

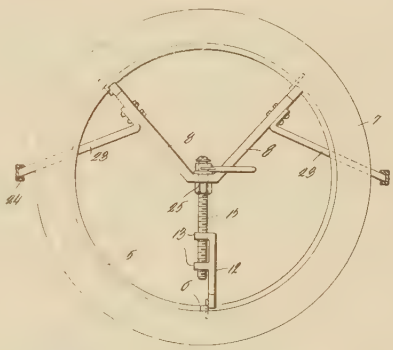
1,418,278. CONTROLLING DEVICE FOR AUTOMOBILES. JASPER BLACKBURN, Webster Groves, Mo., assignor to The Blackburn Patent Steering Wheel Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 10, 1919. Serial No. 276,147. 2 Claims. (Cl. 137—139.)

2. An air controlling device for carburetors, comprising a carburetor, an air passage connected thereto, a shutter located in said passage, a ratchet mounted on said carburetor, a connection between the ratchet and shutter, means carried by the carburetor for holding the ratchet against accidental movement, and means for moving the ratchet



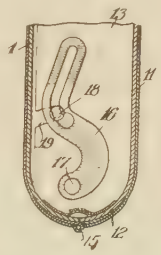
so as to operate said valve, and thereby control the amount of air admitted to the carburetor.

1,418,279. COMBINATION TIRE RACK AND CHANGER. FRANK BOOTH, Safford, Ariz. Filed Oct. 11, 1920. Serial No. 416,143. 1 Claim. (Cl. 224—29.)



A combination tire rack and changer including a V-shape strap the free ends of which are enlarged for engagement with the inner periphery of a tire rim, a secondary strap one end of which is enlarged for engagement with the tire rim and the opposite end equipped with laterally extending lugs lying parallel with the apex of said V-shape strap, a threaded shank one end of which is engaged with said lugs and the opposite end extended through said apex of the V strap and enlarged to provide a ratchet head, and a ratchet lever mounted on said head to operate the latter substantially as described.

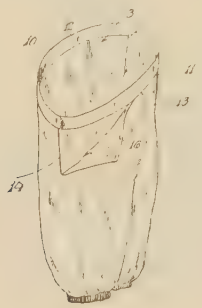
1,418,280. PHOTOGRAPHIC CAMERA. JOHN BORDIGION, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Oct. 28, 1918. Serial No. 259,931. 4 Claims. (Cl. 95—32.)



2. In a camera, the combination with a body member, a cover member and a hinge connecting them arranged

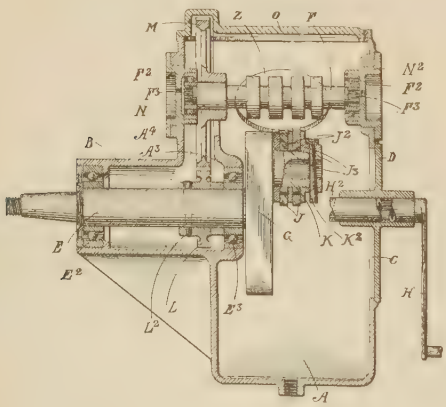
parallel with but between the planes of the front and rear faces of the members, of links pivoted to one member above the hinge extending across the hinge when the members are opened, said links having curved slots at their free ends and pins located on the other member below the hinge and occupying the curved slots.

1,418,281. PLAY SUIT. ESTHER L. BORNSTEIN, Cambridge, Mass. Filed June 24, 1921. Serial No. 480,216. 2 Claims. (Cl. 2—145.)



1. In a garment of the class described, an upper garment, bloomers having a drop seat, a waistband for the bloomers, means for separably connecting the waistband of the bloomers with the upper garment, and means for separably connecting the upper edge of the drop seat to the inner side of the said waistband.

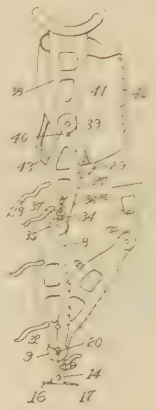
1,418,282. CAM-SHAFT MOUNTING FOR INTERNAL-COMBUSTION ENGINES. JAMES FRANK BUCKINGHAM, Coventry, England. Filed Aug. 31, 1920. Serial No. 407,230. 2 Claims. (Cl. 123—195.)



1. In an internal combustion engine, a crank case, a crank shaft mounted in bearings therein, end walls to said crank case, endwise movable bearing housings carried by each end wall and projecting within said crank case, a cam shaft mounted in said bearing housings and shorter than the distance between said end walls, and a slot in the side of said crank case through which said cam shaft can be fitted and removed radially as regards said crank shaft substantially as set forth.

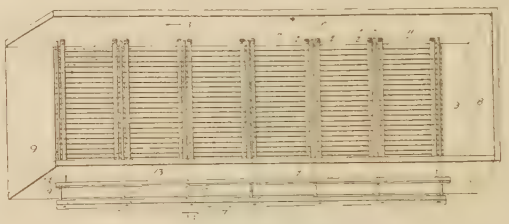
1,418,283. ORTHOPEDIC DEVICE OR APPARATUS. JOHN E. CAMERON, Charlottetown, Prince Edward Island, Canada. Filed Jan. 10, 1920. Serial No. 350,564. 5 Claims. (Cl. 128—80.)

1. An orthopedic device comprising in combination a stirrup secured to the sole of a shoe and arranged with circular cupped portions to embrace opposite sides of the ankle joint; a pair of sections to embrace the leg, said sections being of circular shape in transverse section and arranged with a circular cupped portion to engage outside the cupped portions of the stirrup adjacent the ankle and



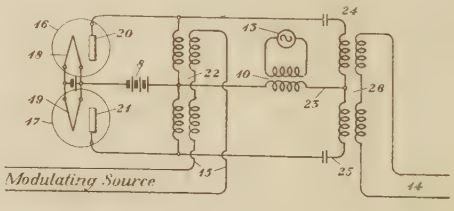
pivotally connected thereto; and resilient means mounted upon the pivotal connection of the stirrup and leg sections and movably connected to the stirrup and leg sections to yieldingly urge the stirrup forward to swing on the pivotal connection thereof with the leg members for the purpose specified.

1,418,284. ADJUSTABLE SCREEN. LOUIS CARETTO, Baldwin, N. Y. Filed June 18, 1921. Serial No. 478,482. 6 Claims. (Cl. 83—56.)



1. In a sand and gravel screen, a supporting frame having vertical side walls with slots therein, sections of fixed bars attached on said walls, and means movable laterally through said slots in the walls of said frame for varying the effective spaces between the bars of said sections.

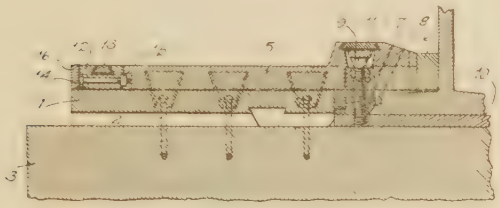
1,418,285. TRANSLATING CIRCUIT. JOHN R. CARSON, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Oct. 10, 1918. Serial No. 257,654. 12 Claims. (Cl. 179—171.)



1. In a signaling system, a duplex translating device comprising two elements having unilateral conductivity, parallel circuits for each of said elements having common branches connected to said elements, a source of unmodu-

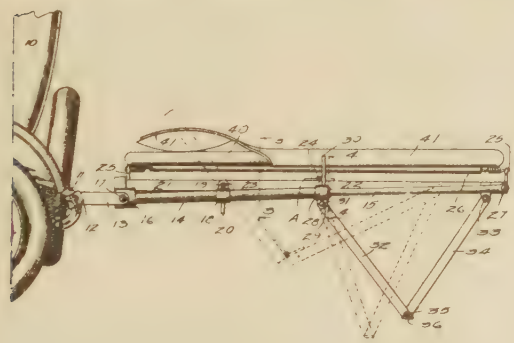
lated oscillations and an outgoing circuit associated with one pair of said parallel circuits, and a source of variable oscillations associated with the other pair of parallel circuits.

1,418,286. RAIL-SECURING INSTRUMENTALITY. PETER JOSEPH CONROY, Scranton, Pa. Filed Jan. 30, 1920. Serial No. 355,226. 6 Claims. (Cl. 238—292.)



1. A rail securing instrumentality comprising a base provided with openings for the reception of means for securing it to a tie; means, slidable transversely with relation to the openings for locking the securing means to the base when the securing means are operatively placed in the openings; a rail engaging member slidably mounted on the base; a rail base engaging member slidably mounted on the rail engaging member; and means for independently adjusting the position of the rail engaging member and of the rail base engaging member with relation to the rail.

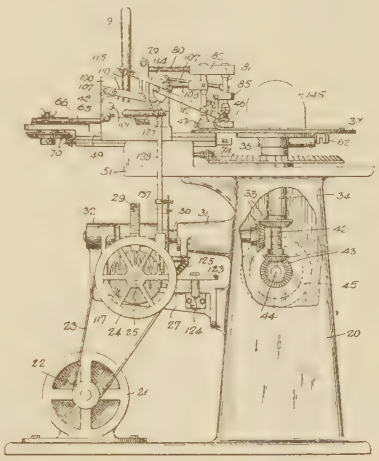
1,418,287. COLLAPSIBLE AUTOMOBILE BED. JAMES FRANK COOPER, Hannibal, Mo. Filed Mar. 4, 1922. Serial No. 541,113. 7 Claims. (Cl. 5—72.)



1. In a device of the class described adapted to be used in combination with an automobile or the like including a telescoping frame member secured at one end to the automobile, a two part bed frame hingedly connected together at their abutting edges, one part of said bed frame being pivotally supported on said telescoping frame member, the other part of said bed frame being pivoted at one end to one end of said telescoping frame member, a pair of supporting legs pivotally secured to said telescoping frame member and to said bed frame, the parts being so arranged that the telescoping of said telescoping frame member will cause one part of the bed frame to be swung over the other part of the bed frame and cause said pair of supporting legs to be moved adjacent to each other whereby the entire bed may be swung to position along the back of the automobile for the purposes stated.

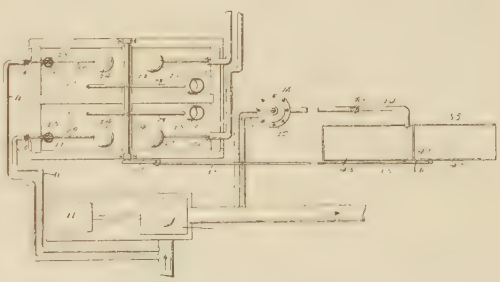
1,418,288. SOFT-HAT-ROUNDING MACHINE. FRANK C. CRAW, East Norwalk, Conn., assignor to Turner Machine Company, Danbury, Conn., a Corporation of Connecticut. Filed Oct. 7, 1919. Serial No. 329,121. 30 Claims. (Cl. 223—24.)

1. A hat trimming machine comprising, in combination, a rotary hat holder, a pair of jaws adapted to receive between them the edge of the brim of a hat carried by said holder, a trimming knife normally housed in one of said jaws, and means for positioning said jaws at opposite



sides of said edge, for projecting said knife into operative position between said jaws, and for withdrawing said knife from operative position and into one of said jaws.

1,418,289. FEED MECHANISM FOR THE CHEMICAL TREATMENT OF WATER. WILLIAM J. DANAHO, Spray, N. C. Filed Feb. 17, 1919. Serial No. 277,540. 22 Claims. (Cl. 210—31.)

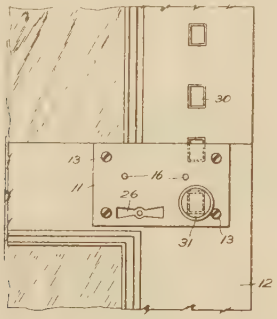


1. Mechanism for supplying a purifying agent to a service water conductor, having a conveyer for the agent which is subjected in the direction of its discharge to hydrostatic pressure to oppose and substantially neutralize the hydrostatic pressure in the conductor, thereby establishing a substantial balance thereof, and means controlled by the flow of liquid through the conductor for maintaining the hydrostatic head.

1,418,290. SASH LOCK. GEORGE W. DEEDS, Philadelphia, Pa. Filed Oct. 21, 1920. Serial No. 418,554. 1 Claim. (Cl. 70—76.)

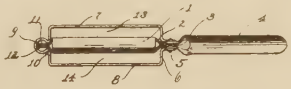
A lock comprising a housing, parallel plates slidably mounted therein of which one is longitudinally movable and the other vertically movable, the under faces of said plates being cut-away, a transversely mounted detent extended through said housing having a notched portion with which the longitudinally shiftable plate is adapted to engage, a key for co-operatively engaging the cut-

away portion of said plates for shifting them, means arranged between said plates for interlocking them and a



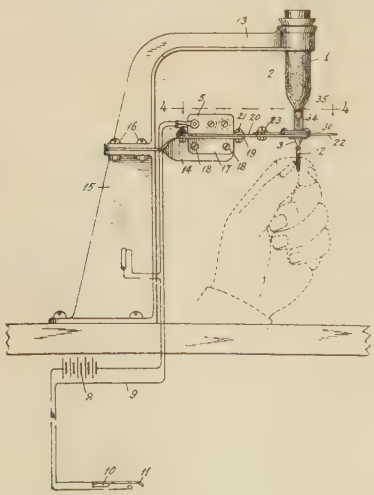
spring interposed between the top of the vertically movable plate and the top of said housing for normally maintaining said plates in the same horizontal plane.

1,418,291. HAIR-WAVING DEVICE. ANGELO DIAZ, New York, N. Y. Filed Aug. 16, 1921. Serial No. 492,749. 2 Claims. (Cl. 132—41.)



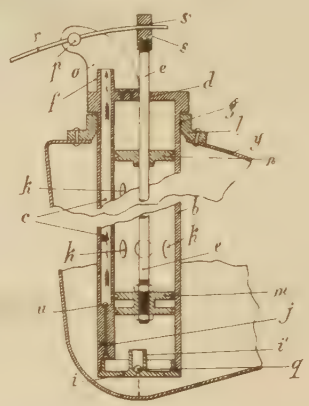
1. In a device of the class described, in combination, a hollow shaft provided with flattened longitudinal ears extending in pairs from the ends thereof and lying in opposed relation, a trough-like clamping member pivotally mounted on a pair of said ears and adapted to engage the end of a strand of hair to be wound about the surface of said shaft, and said member, and a substantially rectangular locking member pivotally mounted on said shaft and having its sides in parallel and spaced relation thereto, said clamping member having a spring loop formed in the end opposite said pivot and adapted to engage a pair of said ears.

1,418,292. DEVICE FOR MEASURING AND FEEDING LUMINOUS MATERIALS. REINER W. ERDLE, New York, N. Y., assignor to The Cold Light Manufacturing Company, a Corporation of Colorado. Filed Apr. 11, 1919. Serial No. 289,454. 5 Claims. (Cl. 221—104.)



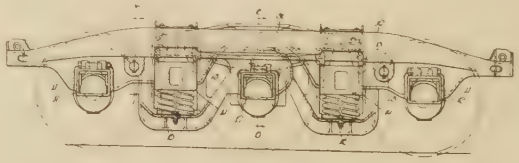
1. In a device for filling containers with luminous material, in combination, a hopper adapted to hold a luminous material, a feeding mouth receiving a supply of material from said hopper, the material normally clogging in said mouth whereby the feed from said hopper is interrupted, means, under the control of an operator, upon the actuation whereof the material is agitated and caused to flow from said mouth into a container, and upon the stoppage of said actuating means the material instantly clogging in said mouth.

1,418,293. PUMP FOR DELIVERING MOTOR FUEL AND THE LIKE. PAUL FISCH, Lyon, France. Filed Nov. 15, 1920. Serial No. 424,248. 1 Claim. (Cl. 103—75.)



A pump for supplying fuel for the engines of motor vehicles, comprising a fuel tank mounted on a suspended part of the motor vehicle, a vertical pump body mounted in the top of said tank and extending downwardly therein and having orifices in its wall communicating with said tank, a piston movable in said pump body, a rod attached to said piston, means for guiding said piston, a delivery conduit in communication with the lower end of said pump body and leading to the point of consumption of said fuel, a valve at the point of junction of said conduit with said body, an inlet valve at the base of said body and means for actuating said piston connected to a non-suspended part of the vehicle, and operated by the relative movements of the suspended and non-suspended parts of the vehicle.

1,418,294. SIX-WHEEL TRUCK. GEORGE G. FLOYD, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Jan. 30, 1922. Serial No. 532,577. 6 Claims. (Cl. 105—195.)

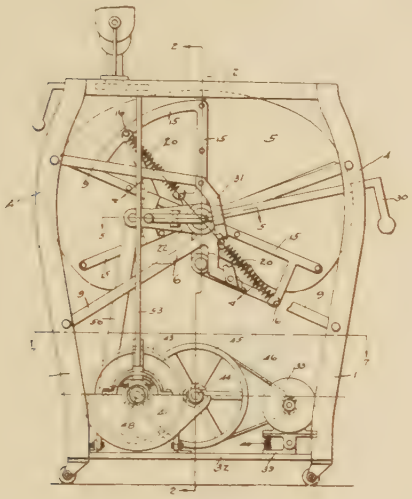


1. In a six-wheel car truck, the combination of a side frame, an intermediate journal box, an equalizing lever pivotally connected to said side frame and having pedestal jaws for receiving said intermediate journal box for preventing tilting of the latter.

1,418,295. OPERATING MECHANISM FOR WASHING MACHINES. JOHN LEADER, THOMAS LITWILLER, and BENJAMIN E. GETZ, Morton, Ill., assignors to Getz Power Washer Co., Morton, Ill., a Corporation of Illinois. Filed Feb. 7, 1920. Serial No. 357,027. 11 Claims. (Cl. 259—75.)

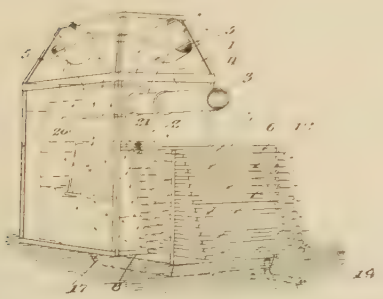
1. In a machine of the character described, in combination, a rockable container, frames attached to opposite

outside walls of said container, each having a supporting trunnion, and one of said frames provided with a clutch socket, a machine frame, bearings on said frame to receive said trunnions, a slidable clutch pin adapted to have



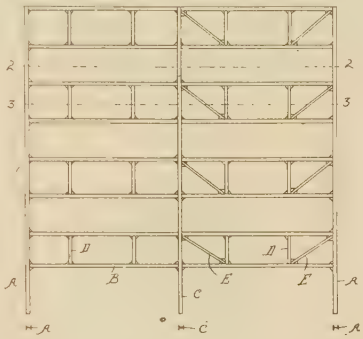
connection with said clutch socket, a rocking rod connected to reciprocate said slidable pin, an operating mechanism, and operating connections between said mechanism and said slidable pin.

1,418,296. AIR-PURIFYING APPARATUS. JOHN B. GOHMANN, Lincoln, Nebr. Filed Mar. 7, 1921. Serial No. 450,444. 7 Claims. (Cl. 261—125.)



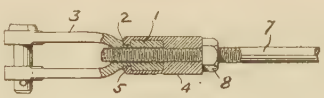
1. In an air-washer, a casing, an upright series of shallow containers in said casing spaced apart with passages between the containers for the passage of currents of air in parallel over the surfaces of bodies of water held in said containers, one side of said casing being open to admit said currents of air, and the other side of said casing being open for the escape of said currents of air, each one of said containers being slidably mounted in said casing, whereby it may be adjusted to project from the first mentioned open side of the casing.

1,418,297. BUILDING CONSTRUCTION. CHAUNCEY M. GOODRICH, Cottam, Ontario, Canada. Filed July 17, 1920. Serial No. 396,963. 8 Claims. (Cl. 189—1.)



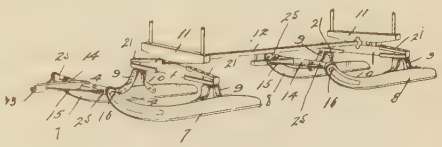
6. A building construction formed of a plurality of stories having means located within the space comprising alternate stories for supporting the adjacent story above free from obstruction.

1,418,298. LONGITUDINAL ROD ADJUSTMENT. THOMAS J. GORMAN, Philadelphia, Pa. Filed Dec. 29, 1919. Serial No. 348,014. 1 Claim. (Cl. 287—59.)



A longitudinal rod adjustment tubular for the passage of the rod and having an open fork for affording access to and exposing the end of the rod and comprising a shackle and a nut in turnable relation, there being a groove and flange connection provided between the shackle and the nut, the groove being in the exterior surface of the shackle and the flange being inturned on the nut.

1,418,299. BOBSLED. OLAF M. GORDER, Zumbrota, Minn. Filed Jan. 7, 1921. Serial No. 435,617. 1 Claim. (Cl. 280—24.)

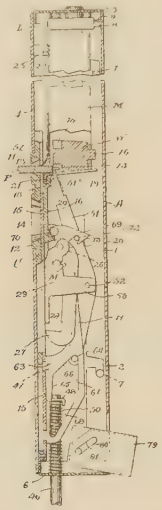


In a bob sled, the combination with beams, front and rear runners, a pole having a roller and a reach structure having a roller, of beam extension caps secured to the ends of the beams, means connecting the runners to the beam, extension caps outward of the beams, roller extension caps secured to ends of the rollers, and tie rods connecting the pairs of runners and extending through the roller extension caps.

1,418,300. COIN-CONTROLLED VENDING MACHINE. ALBERT D. GROVER, New York, N. Y., assignor, by mesne assignments, to Autosales Corporation, a Corporation of New York. Filed Mar. 8, 1917. Serial No. 153,487. 15 Claims. (Cl. 194—57.

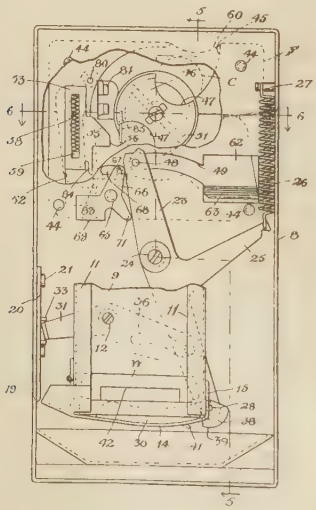
1. In a coin-controlled vending machine, a casing having a coin-opening and a delivery opening, a magazine for

the vendable goods, a normally locked coin-slide adapted to receive the deposited coin and normally covering said delivery opening, means to release said coin-slide through the medium of the coin therein, means for manually operating said slide from the outside of the casing, a movable member for ejecting the goods from said magazine, mechanism connected with said slide for actuating



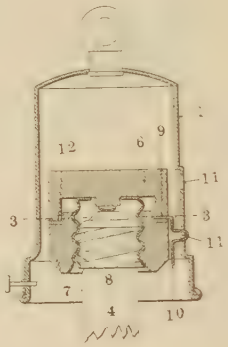
said ejecting member, a device for positively locking said member in actuated position, and means controlled by said slide for automatically moving said device into releasing position during the return movement of said slide after said slide has covered said delivery opening, said last-mentioned means being adapted to hold said locking device in an inoperative position during the normal position of the parts.

1,418,301. COIN-CONTROLLED VENDING MACHINE. ALBERT D. GROVER, New York, N. Y., assignor, by mesne assignments, to Autosales Corporation, a Corporation of New York. Original application filed Apr. 8, 1916, Serial No. 89,752. Divided and this application filed May 4, 1917. Serial No. 166,296. 13 Claims. (Cl. 194—88.)



1. In a coin-controlled vending machine, a movable coin-carrier, an ejecting member adapted to be operated by the coin in said coin-carrier, locking means adapted to be moved aside by the coin in said coin-carrier, and a latch held normally in an inoperative position by said ejecting member, said latch being automatically released when said ejecting member is out of normal position to lock said means in locking position and thereby lock the coin in the coin-carrier against operative movement in the machine, said coin-carrier being movable in the reverse direction to permit withdrawal of the coin.

1,418,302. LIGHTING FIXTURE. EDWIN F. GUTH, St. Louis, Mo., assignor to St. Louis Brass Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 25, 1919. Serial No. 292,538. 1 Claim. (Cl. 173—358.)

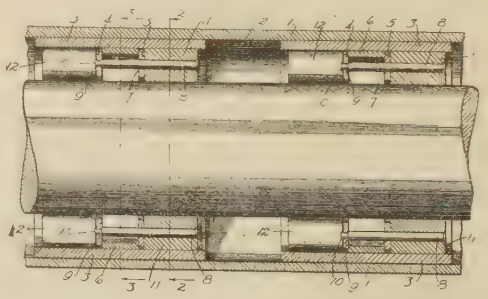


In a lighting fixture the combination with a shell provided with vertically aligned openings, of a two part lamp receptacle within said shell, means on said receptacle having resilient extensions adapted to engage with the openings in the shell, said shell also being provided with a groove to guide the extensions of the plate from one opening in the shell to another.

1,418,303. ALUMINUM ALLOY. HORACE CAMPBELL HALL, Derby, England, assignor to Rolls-Royce Limited, Derby, England, a Company of Great Britain. Filed Feb. 18, 1921. Serial No. 446,115. 6 Claims. (Cl. 75—1.)

1. An alloy, comprising 1 to 3% copper; 1 to 2% titanium; 6 to 16% zinc; and impurities contained in commercial aluminum, not exceeding 1% in the aggregate; the remainder consisting mostly of aluminum.

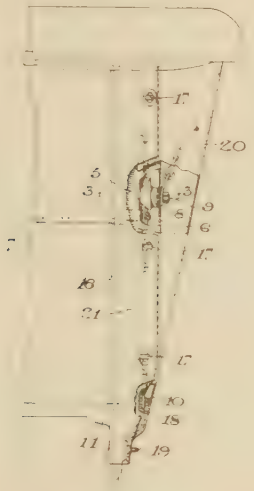
1,418,304. ROLLER BEARING. WILLIAM S. HALSEY, Dover, N. J. Filed Apr. 23, 1920. Serial No. 376,015. 5 Claims. (Cl. 64—62.)



4. The combination with a bearing sleeve, of a roller bearing unit comprising a pair of parallel rings having a plurality of holes therein, a split ring disposed be-

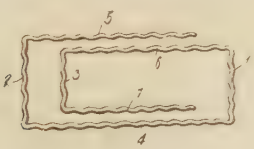
tween said parallel rings and arranged to frictionally engage said bearing sleeve, a plurality of stub shafts disposed in the alined holes of said parallel rings for securing said parallel rings to each other, and rollers mounted for rotation on said stub shafts.

1,418,305. WINDSHIELD WEATHER SEAL. GUSTAV E. HOLMES, JOHN M. BOSTROM, and AXEL G. BOSTROM, Milwaukee, Wis. Filed Sept. 29, 1921. Serial No. 504,205. 4 Claims. (Cl. 296—33.)



1. In a device of the character described, the combination of a metal frame secured to the windshield, a sealing strip secured to said frame and having a weatherstrip portion engaging the windshield, and a sealing flap portion for the front edge of the front curtain, said frame having curtain fasteners to which the front edge of the front curtain is secured between the frame and said flap.

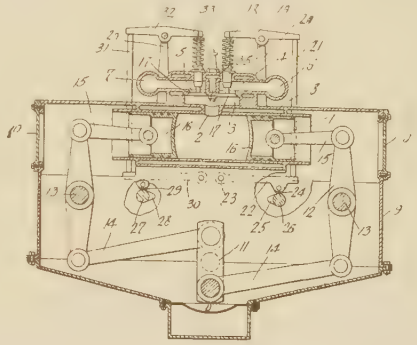
1,418,306. PAPER CLIP. FRANK P. HOLT, Fort Worth, Tex. Filed Oct. 21, 1920. Serial No. 418,424. 2 Claims. (Cl. 24—261.)



1. A paper clip including a strand of wire bent to embrace opposite sides of the paper and corrugated throughout its length so that its corrugations extend in the same plane with the clip.

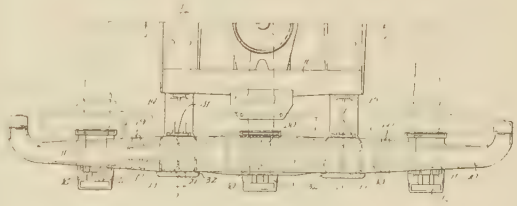
1,418,307. HYDROCARBON ENGINE. CHARLES J. KIERUM, Schertz, Tex. Filed Oct. 29, 1917. Serial No. 199,118. 1 Claim. (Cl. 123—67.)

A hydrocarbon engine including a casing, a gas chamber extending longitudinally of the casing, and an exhaust chamber extending longitudinally of the casing, separate valve chambers each having ports communicating respectively with the said gas chamber and exhaust chamber, valves normally closing the respective ports, a plurality of units within the casing and arranged side by side, each unit including a cylinder having open ends and having a port in the middle portion opening into the adjacent valve chamber, opposed pistons mounted to reciprocate within each cylinder, a crank shaft, opposed levers within the casing, a pitman connecting each lever



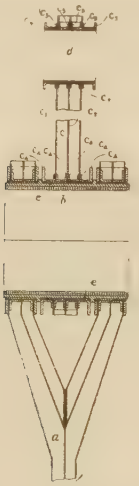
with its piston, a link connecting each lever with one of the cranks on the shaft, the points of connection between the cranks and links being diametrically opposed, oppositely extending normally aligning operating levers pivotally mounted at one end, parallel shafts, a cam on each shaft for each unit, said cams actuating the levers in timed relation to the rotation of the crank shaft, a lifting pin actuated by each of said operating levers, and means operated by the respective lifting pins for unseating the respective valves, and ignition means within each of the valve chambers.

1,418,308. SIX-WHEEL RAILWAY CAR TRUCK. JOHN A. LAMONT, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Jan. 30, 1922. Serial No. 532,592. 5 Claims. (Cl. 105—195.)



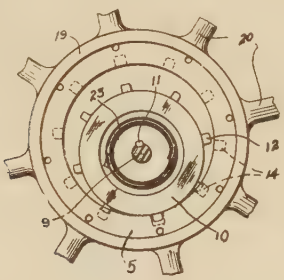
1. In a six-wheel car truck, the combination of a side frame having journal box openings for the reception of the end journal boxes, equalizing levers operatively connected to said side frame, one of said equalizing levers having an opening for the reception of an intermediate journal box, and a flexible bolster having separate transverse members which are operatively associated with said equalizing levers for transmitting loads through said equalizing levers to all of said journal boxes.

1,418,309. BUILT-UP SHEET-METAL STRUCTURE. HEBRON BERNARD LAYMAN, Bronxville, N. Y. Filed May 23, 1917. Serial No. 170,416. 4 Claims. (Cl. 74—17.)



1. A built-up sheet ferrous metal structure having integrated therewith a tubular non-ferrous metal bearing, in which the grain structure is circumferential of the bearing.

1,418,310. DRIVING MECHANISM FOR VEHICLES. WILLIAM B. LEFLER, Springfield, Nebr. Filed May 9, 1921. Serial No. 467,977. 2 Claims. (Cl. 305—7.)

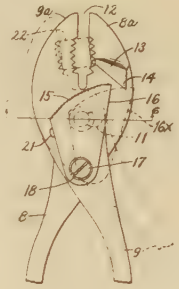


1. In combination with a vehicle having a road wheel provided with a central cavity with driving depressions therein, a gear wheel floating about in said cavity being of less diameter than the cavity and provided with teeth fitting in said depressions at the lower portion of the cavity, said gear wheel having recessed sides, plates secured to the sides of said road wheel to close the cavity and provided with large openings therein, coil springs seated in the recesses in the sides of said gear wheel and bearing frictionally against said plates, and a drive shaft extending loosely through the opening in said plates and fixed to said gear wheel.

1,418,311. METHOD OF MAKING SOLUBLE STARCH PRODUCTS. ADOLPH W. H. LENDERS and HANS F. BAUER, Cedar Rapids, Iowa, assignors, by mesne assignments, to Penick & Ford, Ltd., Incorporated, a Corporation of Delaware. Filed July 2, 1917. Serial No. No. 178,214. 1 Caim. (Cl. 127—23.)

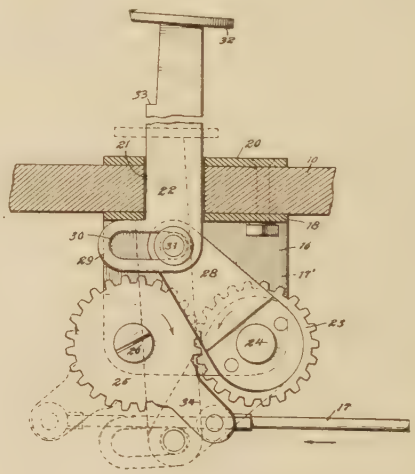
The method of manufacturing the product specified which consists in first making a water solution of modified or thin boiling starch by the usual process of acid hydrolysis, then subjecting such solution without added ingredients to a temperature which instantaneously evaporates the water and further modifies the starch.

1,418,312. PLIERS. EDWARD M. LOFTUS, St. Paul, Minn. Filed Jan. 3, 1921. Serial No. 434,490. 3 Claims. (Cl. 7—3.)



1. The combination with a pair of pliers comprising two crossing jaw levers with a main pivot through the crossing, one of said levers having near the jaw a lateral projection forming a tooth, a spring-held cam pivoted to the other jaw rearward of the main pivot and having a serrated cam face adapted to engage the tooth on the jaw of the first-mentioned lever.

1,418,313. PEDAL. GEORGE F. LONG, New York, N. Y., assignor to The G. Piel Company, Inc., a Corporation of New York. Filed Dec. 31, 1917. Serial No. 209,626. 10 Claims. (Cl. 74—14.)

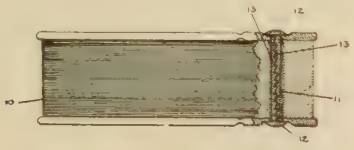


1. In a device of the class described, the combination of a pair of meshed geared members, a relatively long arm extending radially from one of the gear members to turn the same, a manually actuated thrust member pivotally connected to said arm, means for guiding the thrust member, said arm movable over an arc and across a radial line perpendicular to the line of thrust of said member, and a mechanism control member connected to the other geared member and actuated thereby.

1,418,314. LOCK FOR BINDERS. CHARLES F. MCBEE, Athens, Ohio, assignor to McBee Binder Company, Athens, Ohio. Filed Aug. 13, 1921. Serial No. 492,082. 1 Claim. (Cl. 281—25.)

A locking device for paper binders comprising a spring metal tube adapted to be inserted in the perforations of the leaves to be bound, a binder post formed in two

longitudinally, and mating, divided sections, and interengaging teeth formed in the abutting surfaces thereof,



each of said sections having a head formed to overhang its respective side of the volume under construction.

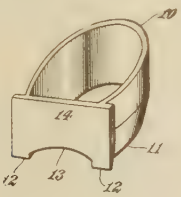
1,418,315. INDEX BOOK FOR FILING SYSTEMS. CHARLES F. MCBEE, Athens, Ohio. Filed Sept. 17, 1921. Serial No. 501,382. 3 Claims. (Cl. 283—17.)

1. An index book for filing systems comprising a group of leaves containing a classified list of allied industries, and an identifying character for each of same, and a classified list of subjects, pertaining to possible correspondence matters, and an identifying character for each subject.

1,418,316. TRACTOR LINK. WALTER S. MCKEE, Chicago, Ill. Filed Nov. 7, 1919. Serial No. 336,326. 2 Claims. (Cl. 305—10.)

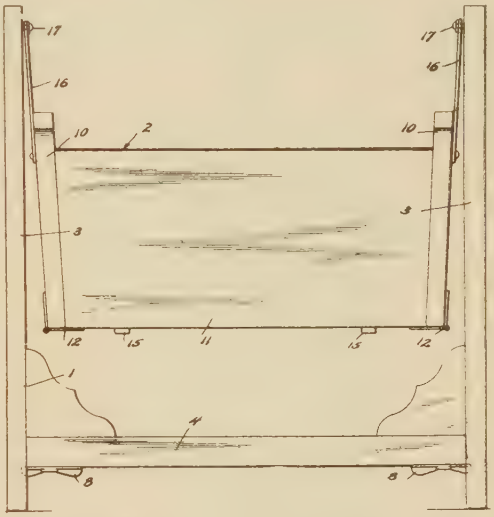
1. In a mechanism of the class described the combination of adjoining tractor links, said links provided with a front bearing member and spaced rear bearing members having alinged openings, a bearing pin projecting through and beyond the sides of aligned front and rear bearing members of adjoining links, detachable rollers mounted upon the protruding ends of said pin, means for holding said rollers in position upon said pin, and means for causing the rotation of said rollers to impart a similar movement to said pin.

1,418,317. DIE FOR SHOE SOLES. AMOS MADSON, Pontiac, Ill., assignor to Norway Welt Shoe Corporation, Wilmington, Del., a Corporation of Delaware. Filed May 7, 1920. Serial No. 379,498. 3 Claims. (Cl. 164—29.)



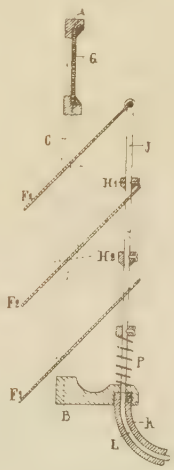
1. A die for shoe soles, comprising, an arcuate part and outwardly extending parts at the ends of and integral with said arcuate part, said arcuate part being beveled inwardly to provide an inner cutting edge and said outwardly extending parts being beveled outwardly to provide outer cutting edges.

1,418,318. BABY SWING. MARTIN F. MERIFIELD, Hicksville, Ohio. Filed Nov. 28, 1921. Serial No. 518,225. 2 Claims. (Cl. 5—56.)



1. A collapsible baby swing consisting of a supporting frame including side and end pieces, said end pieces each having key slots cut in their inner faces adjacent the lower ends thereof and said side pieces having headed bolts projecting from their ends and adapted to slidably engage said slots and said side pieces having turn buttons on their lower faces adapted to project into said recesses and lock the parts in assembled position, and a cradle swung from the upper ends of said end pieces composed of bottom, end and side members, hinges connecting the bottom and end members to permit the end members to be folded flat against the surface of the bottom member, said end members having key slots cut in their inner faces and said side members having headed bolts projecting from their ends and adapted to slidably engage said key slots, and said side members having turn buttons adapted to be turned into engagement with the under surface of said bottom member.

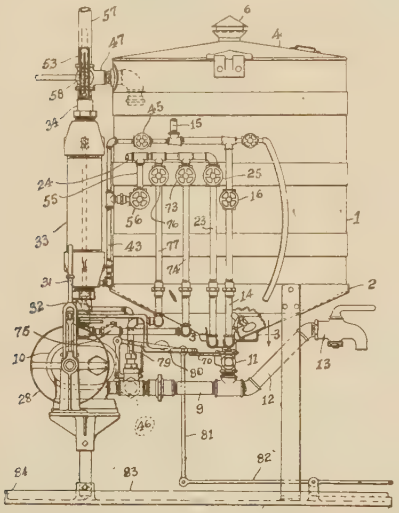
1,418,319. HEADLIGHT. PIERRE VICTOR MERTZINGER, Malakoff, France. Filed Mar. 8, 1921. Serial No. 450,577. 4 Claims. (Cl. 240—45.2.)



1. A headlight dimmer, comprising a series of superposed parallel blades mounted for rocking movement about

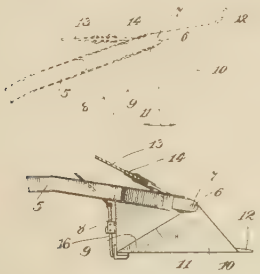
horizontal axes; a vertically-movable operating rod extending loosely through openings in the rear portions of the blades; and stop collars mounted on said rod for engagement with said blades to rock them during the downward movement of the rod.

1,418,320. STARCH-PREPARING APPARATUS. ERNEST W. MILLER, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 21, 1916. Serial No. 116,074. 7 Claims. (Cl. 127—23.)



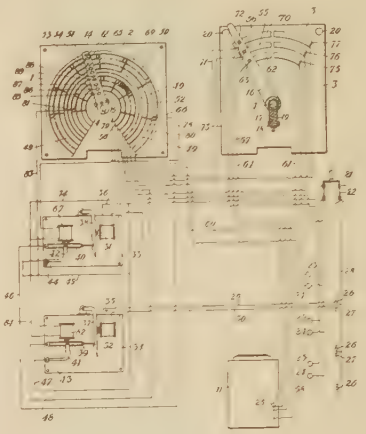
5. Apparatus for preparing starch, comprising a reservoir, a series of steam injectors communicating with the lower portion of said reservoir and arranged to produce a whirling movement of the starch mixture therein, a temperature correcting device also communicating with said reservoir and to which the mixture is conducted therefrom, a spray nozzle leading into said reservoir, and means for conducting said mixture from said temperature correcting device to said nozzle.

1,418,321. DIPPER FOR SHOVELING MACHINES. ARTHUR K. MITCHELL, Bronxville, N. Y., assignor to St. Joseph Lead Company, New York, N. Y., a Corporation of New York. Filed July 21, 1920. Serial No. 397,882. 5 Claims. (Cl. 214—145.)



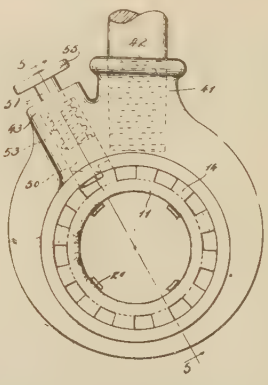
1. A dipper for shoveling machines, comprising, in combination with a boom, a dipper section fixed to the boom, and a movable discharge section mounted upon the end of the boom and comprising parts arranged to constitute side portions of the dipper when in closed position, said dipper sections, when closed, being disposed below the plane of the boom.

1,418,322. ELECTRIC SIGNAL APPARATUS FOR ELEVATORS. ROBERT A. NEWE, Houston, Tex. Filed Jan. 12, 1920. Serial No. 350,732. 3 Claims. (Cl. 177—336.)



3. A device of the character described including an elevator car, a commutator provided with two pairs of continuous contacts two rows of sectional contacts for each pair and a row of contact plugs for each pair; means for alternately completing and breaking an electrical circuit through the respective pairs of continuous contacts, electrical wiring connecting said means and said plugs in a circuit; a movable brush support arranged to move adjacent the commutator; two sets of brushes carried by said support, each formed of three units connected together one unit of each brush being in constant contact with one of the continuous contacts of the corresponding pair and the other two units being arranged to contact successively with the corresponding rows of sectional contacts; two pairs of brushes carried by said support, each formed of two units connected together, one unit of each brush, being in constant contact with the other continuous contact of each pair, and the other unit of each of said last mentioned brushes contacting successively with the contact plugs of the corresponding row of said contact plugs; stationary electric signal lights; electrical wiring connecting said lights in a circuit with the rows of sectional contacts of each pair of rows, a pilot light located in the elevator car; electrical wiring connecting said pilot light in circuit with the other row of sectional contacts of each pair and electrically operated means for effacing said signals connected in circuit with said contact plugs.

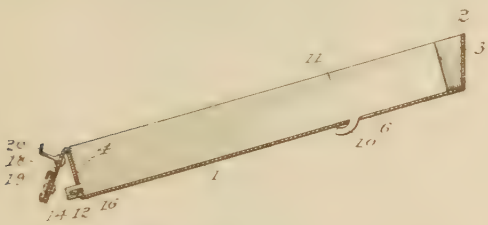
1,418,323. DIESTOCK. IRA W. NONNEMAN, Warren, Ohio, assignor to The Borden Company, Warren, Ohio, a Corporation of Ohio. Filed Jan. 14, 1920. Serial No. 351,463. 12 Claims. (Cl. 10—124.)



12. The combination of a head having a sleeve, an oscillating driving device surrounding the sleeve and

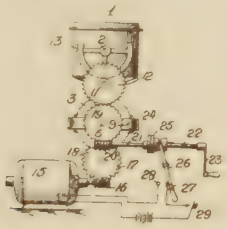
having a ratchet engagement therewith, said head having radial notches, chasers occupying said notches, a ring secured to the end of the head, and means comprising a rib on said ring engaging the outer faces of the chasers, and projections extending from the frame and engaging openings in the inner faces of the chasers whereby the chasers are engaged and held at both their outer and inner edges by the ring and head.

1,418,324. SHELVING. JOHN B. O'CONNOR, Aurora, Ill., assignor to Lyon Metallic Manufacturing Company, Aurora, Ill., a Corporation of Illinois. Filed Sept. 20, 1920. Serial No. 411,437. 5 Claims. (Cl. 220—22.)



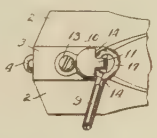
1. A metallic shelf having an opening in the bottom, a divider having a lug extending obliquely downward and thus forming a crotch, the lug being adapted to pass down through said opening, and means for forcing the metal of the shelf into said crotch for wedgingly holding the divider.

1,418,325. SEARCHLIGHT-POSITIONING MEANS. MARTIN L. PATTERSON, Bogota, N. J., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed June 19, 1920. Serial No. 390,057. 4 Claims. (Cl. 240—61.)



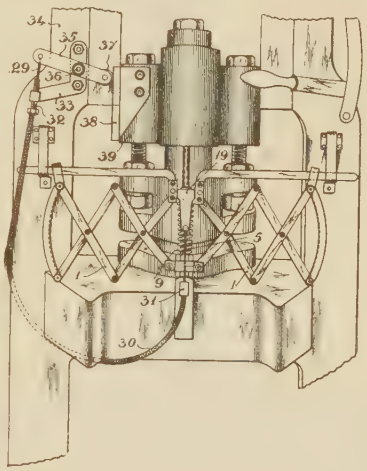
1. The combination with a movable object, of electrical driving means, manual driving means, differential means connecting both of said driving means with said object, means for placing the manual driving means into or out of action, and means controlled by the placing of the manual driving means into action for rendering said electrical driving means inoperative.

1,418,326. ARTIFICIAL BAIT. CHARLES T. PFLUEGER and WALTER L. ADAMS, Akron, Ohio, assignors to The Enterprise Manufacturing Company, Akron, Ohio, a Corporation of Ohio. Original application filed Aug. 7, 1919, Serial No. 315,870. Divided and this application filed Sept. 10, 1920. Serial No. 409,407. 4 Claims. (Cl. 43—46.)



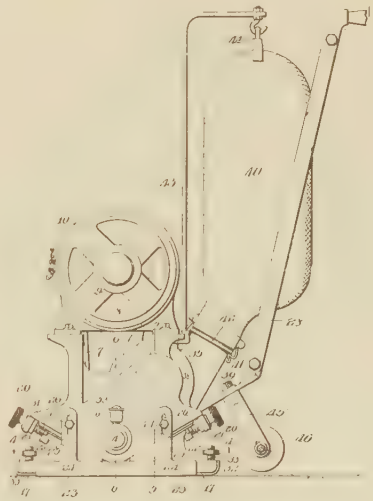
1. A clip for attaching fish hooks to an artificial bait, said clip comprising a hollow body portion arched outwardly from the surface to which it is attached and having a bent hook receiving tongue extending from said arched body portion towards said surface, and means for securing said clip to the surface of a fish bait.

1,418,327. GUARD FOR POWER PRESSES. JOHN EDWIN PHILLIPS, Birmingham, England. Filed June 28, 1921. Serial No. 481,015. 3 Claims. (Cl. 74—105.)



1. A press-guard comprising a collapsible and extensible frame, a cable operated by a moving part of the press adapted positively to extend the guard during the power stroke of the plunger, and a coiled spring for automatically collapsing the guard on the return stroke of the plunger.

1,418,328. FLOOR-PLANING MACHINE. THOMAS J. POWER, Philadelphia, Pa. Filed Apr. 11, 1921. Serial No. 460,161. 5 Claims. (Cl. 144—117.)

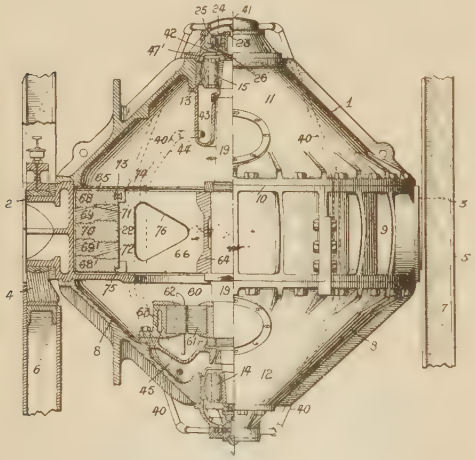


1. A frame consisting of a housing for a rotary cutter and a mounting for a motor for said cutter, a wall extending outwardly from said housing and inclined upwardly and backwardly; a shoe closing more or less the lower end of said housing and having a rear portion with an inclined upper face slidably engaging the lower face of said wall, and a screw for so slidably adjusting said shoe to both vertically adjust said cutter and also make wider or narrower the opening in the housing through which the cutter projects.

1,418,329. FRICTION CLUTCH FOR TELESCOPING ELEMENTS. JOHN SCHADE, Holyoke, Mass., assignor to National Blank Book Company, Holyoke, Mass., a Voluntary Trust Associati n or Copartnership, having as trustees F. B. Towne, E. S. Towne, J. M. Towne, and F. W. Wilson. Filed Apr. 2, 1921. Serial No. 458,015. 10 Claims. (Cl. 129—13.)

7. In a device of the class described, a pair of connectible members, a female element on one member, a male element on the other having a conical head, a clutch ring movable outwardly over the head into engagement with the female element, a sleeve slidable on the male element to actuate the ring, a bearing part provided on the outer end of the sleeve, and means engaging said part to operate the sleeve.

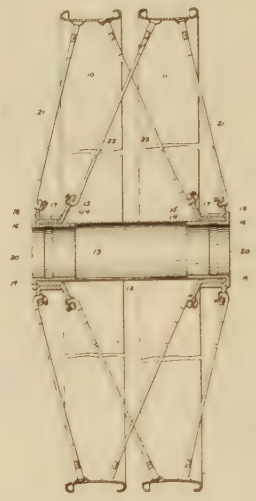
1,418,330. RESILIENT FLYWHEEL. ALEXANDER E. SCHEIN, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Mar. 29, 1919. Serial No. 286,116. 10 Claims. (Cl. 74—78.)



1. A fly wheel comprising a rim portion, a hub portion, and radially yielding but axially relatively stiff spokes connecting said portions.

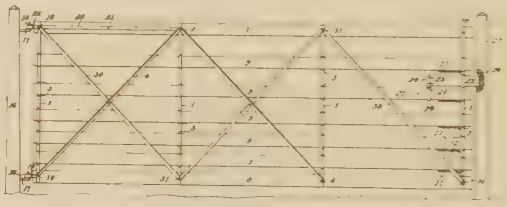
1,418,331. WHEEL. CHARLES SCHENCK and LEWIS FINE, Philadelphia, Pa., assignors, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 17, 1918. Serial No. 258,500. 7 Claims. (Cl. 301—59.)

1. In combination, a wheel comprising a pair of rims, a hub, an inner flanged member adjacent each end of the hub, an outer flanged member mounted on each inner flanged member, spokes connecting each of the inner



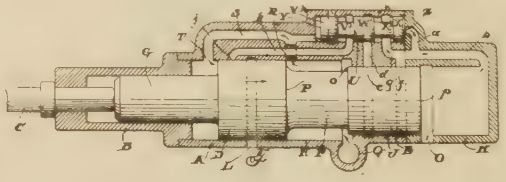
flanged members with the rim fartherest therefrom, and spokes connecting each of the outer flanged members with the rim nearest thereto.

1,418,332. FARM GATE. JOHN F. SCHWEIGER, Flora, Ind. Filed Feb. 10, 1921. Serial No. 443,906. 7 Claims. (Cl. 256—73.)



1. A fence gate of the type described comprising a metallic framework, upper and lower slats fixed thereto, intermediate slats removably mounted therein, a hinge mounting for the gate, a sliding latch carried by the free end of the gate and resilient catches for holding the intermediate slats in position.

1,418,333. ROCK DRILL. WILLIAM A. SMITH, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 13, 1920. Serial No. 403,356. 2 Claims. (Cl. 121—18.)



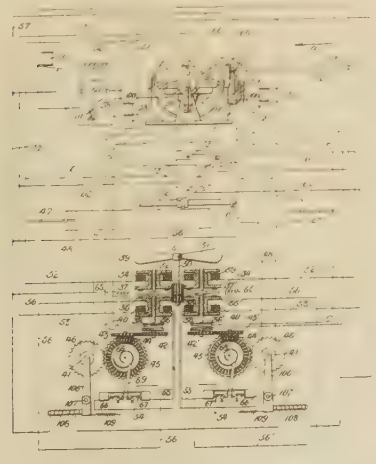
1. In a fluid operated rock drill of the hammer type, the combination of a cylinder and a differential piston constructed with a main head and a rear head of different diameters connected by a reduced neck and having two forwardly acting pressure surfaces and a rearwardly acting pressure surface, means for constantly supplying

fluid pressure to one of said forwardly acting pressure surfaces, a supply port controlled directly by the main piston head and communicating directly with an admission port at the forward end of the cylinder for supplying motive fluid to the rearwardly acting pressure surface, a piston controlled exhaust port for the cylinder, an anti-compression port for the forward end of the cylinder located forwardly of said supply and exhaust ports, a forward admission port and another admission port rearward of said forward admission port for supplying motive fluid to the other of said forwardly acting pressure surfaces of the piston, and a fluid actuated valve for controlling communication between forward and rearward admission passages leading to said forward and rearward admission ports and for controlling communication between said anti-compression port and the atmosphere.

1,418,334. AUTOMOBILE-RADIATOR ATTACHMENT. CHARLES E. SPAID, Sioux Falls, S. Dak. Filed Mar. 23, 1917. Serial No. 156,998. 1 Claim. (Cl. 257—125.)

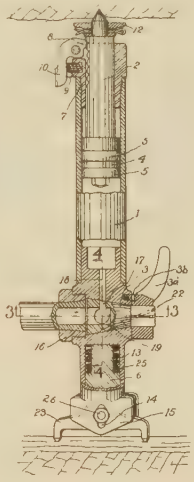
A radiator attachment comprising a casing shaped to conform to the outline of a radiator, means for detachably securing said casing to the front of a radiator, said casing provided with spaced front and rear walls, said rear walls provided with a plurality of discharge apertures formed therein, a plurality of fresh air supply tubes extending through said front and rear walls and provided with their discharge ends communicating with the front of a radiator upon which said attachment is adapted to be placed, and caps threaded upon the outer end of said tubes for permitting the outer ends of said tubes to be positively closed when it is so desired.

1,418,335. AUTOMATIC PILOT FOR AEROPLANES. ELMER A. SPERRY, Brooklyn, N. Y. Filed Nov. 19, 1918. Serial No. 263,217. 18 Claims. (Cl. 244—29.)



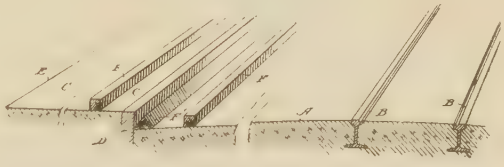
1. In an aeroplane control system, a plurality of control planes for governing the position of the aeroplane about at least two axes, power means for actuating said planes, a manually operable member for calling said power means into action to cause the aeroplane to turn about any one of said axes and means for actuating said planes directly from said member.

1,418,336. PNEUMATIC DRILL COLUMN. HAROLD I. STAGE, Easton, Pa. Filed Jan. 13, 1919, Serial No. 270,877. Renewed Apr. 18, 1922. Serial No. 555,236. 5 Claims. (Cl. 255—53.)



1. A column adapted to support a fluid actuated percussive tool in operative position comprising a transversely pivoted adjustable rock engaging foot capable of accommodating itself to inequalities of the floor, a cylinder casing non-rotatively connected to the said pivoted foot, a fluid actuated piston in the cylinder casing, a piston rod connected to said piston, said piston rod extending beyond the end of the cylinder casing, a rack and pawl engagement between said piston rod and cylinder casing, a rock engaging pointer at the end of the piston rod, and means for exerting spring pressure tending to force one of the rock engaging members outward beyond the position assumed due to the fluid actuating pressure in said cylinder, whereby upon failure of fluid pressure the said pawl engages the rack on the piston rod and in conjunction with said spring causes the rock engaging members to continue to exert pressure against the rock.

1,418,337. SNOW DISPOSAL. JOSEPH A. STEINMETZ, Philadelphia, Pa. Filed Apr. 12, 1921. Serial No. 460,832. 4 Claims. (Cl. 94—31.)

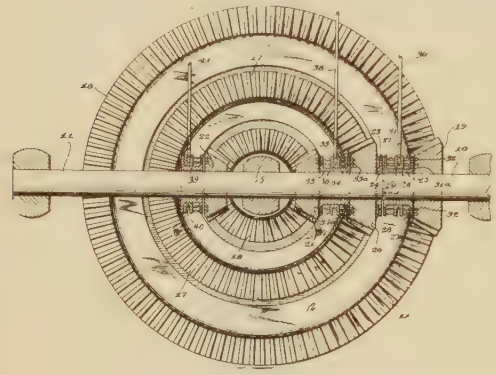


1. For aiding snow disposal in streets having gutters and curbs, the combination with a readily removable snow-retaining stringer parallel to and everywhere at a selected distance from the curbs, of thin bars resting on the same surface as the stringer and holding the latter in place upon said surface.

1,418,338. TRANSMISSION GEARING. GEORGE W. STONE, Gillette, Wyo. Filed July 14, 1920. Serial No. 396,106. 1 Claim. (Cl. 74—59.)

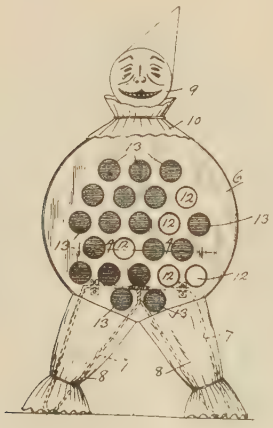
The combination of axially alined drive and driven shafts, a pair of idling ring gear members having each

a plurality of gears of different diameters, bevel pinions in mesh with the ring gears, one of said pinions being loose on the drive shaft, and a pair of said pinions being loose on the driven shaft, a reversing bevel pinion loose on the driven shaft and in mesh with one of the ring gears, a clutch element fast on the driven shaft, a clutch member carried by the drive shaft and driven thereby, said clutch member being adjustable to obtain a direct



driving connection between the drive shaft and the aforesaid clutch element, and to establish a driving connection between the drive shaft and the aforesaid pinion which is loose on said shaft, a clutch member between the aforesaid pair of pinions, and adjustable for selectively establishing a driving connection between said pinions and the driven shaft, and a clutch member adjustable for establishing a driving connection between the reversing pinion and the driven shaft.

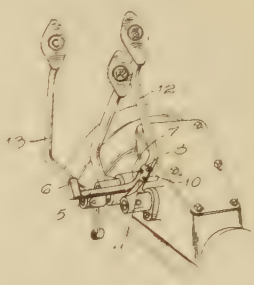
1,418,339. TOY TARGET. CHARLES L. TEMPLETON, Minneapolis, Minn. Filed Feb. 16, 1921. Serial No. 445,398. 3 Claims. (Cl. 46—59.)



1. A toy target having a group of bulls-eye forming perforations and in said perforations frictionally held displaceable bulls-eye plugs adapted to be dislodged by toy projectiles, said target plugs being in the form of cover-equipped cartons.

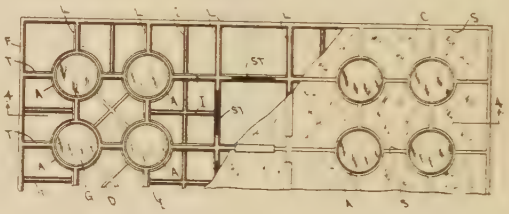
1,418,340. CLUTCH-PEDAL CONTROL FOR AUTOMOBILES. MAX WAGNER, Chicago, Ill. Filed Dec. 5, 1919. Serial No. 342,805. 1 Claim. (Cl. 74—81.)

The combination with the brake and clutch pedals of a motor vehicle, the clutch pedal having a shank which extends laterally at its inner end with respect to the shank of the brake pedal; of a clutch pedal actuator carried by the brake pedal shank and comprising a clamping member having means for adjustable connection to said shank, an arm extending laterally from said mem-



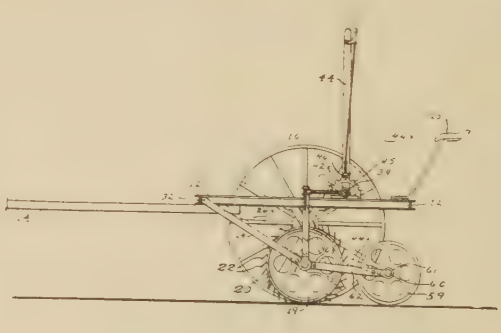
ber, and a cam member on the outer end of said arm, said cam member extending laterally from the arm for engagement with the aforesaid laterally extending portion of the clutch pedal shank.

1,418,341. VAULT LIGHT. WILLIAM L. WALKER, New York, N. Y. Filed May 3, 1919. Serial No. 294,381 19 Claims. (Cl. 94—29.)



1. A vault light frame comprising a plurality of members secured together with spaces therebetween, said members having a cross-section with bowed sides so as to hold cement, or the like in said spaces, and said frame having an opening therethrough adapted to support a lens therein and removable means for positively retaining a lens in said opening.

1,418,342. CULTIVATOR. JOHN R. WALTON, Wichita, Kans. Filed Apr. 18, 1921. Serial No. 462,143. 2 Claims. (Cl. 55—12.)



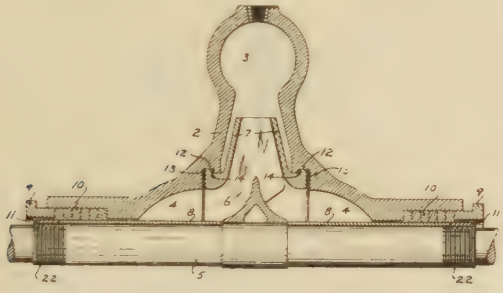
1. In a cultivator, a framework on wheels, a plurality of drums arranged end to end transversely to and beneath said frame intermediate the wheel supports thereof; each drum having teeth outwardly projecting from its walls; arms pivotally supported from the front of said frame work and extending rearwardly and downwardly at an acute angle and connected to axle bearings on each drum and other arms connecting to said bearings and upwardly extending therefrom and terminating in a head portion, each arm of the latter series being slidably housed through a block, said block having a pivoted connection with another arm, a shaft rigid with said arm, a lever rigid with said shaft and a segment on said frame en-

gageable as desired by a dog carried by said lever and whereby the said drums may be pivotally supported from said frame in desired positions.

1,418,343. GRAIN-CAR-DOOR OPENER. IRA B. WHITE, Fort Worth, Tex. Filed June 11, 1921. Serial No. 476,661. 4 Claims. (Cl. 254—119.)

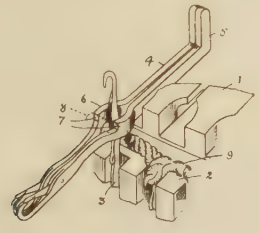
1. In a device of the class described, the combination of a lever, a jaw device straddling said lever, said jaw device provided with oppositely-extending jaws, teeth on said jaws, and a second jaw device carried by said lever.

1,418,344. CENTRIFUGAL PUMP. WILLIAM MONROE WHITE, Milwaukee, Wis. Filed Oct. 14, 1918. Serial No. 258,471. 6 Claims. (Cl. 253—191.)



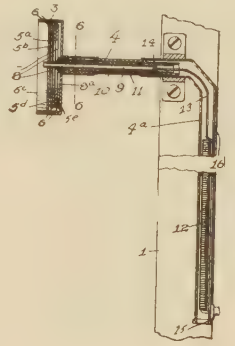
1. In a hydraulic machine, a casing having a curved surface of revolution cooperable with the rotary side plate of a closed impeller, and a stationary side plate cooperable with said surface to interchangeably adapt said casing for cooperation with an open impeller.

1,418,345. KNITTING-MACHINE NEEDLE. EARL M. WITHERELL, Duluth, Minn. Filed Mar. 1, 1921. Serial No. 448,811. 2 Claims. (Cl. 66—5.)



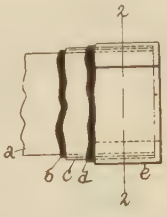
1. A bifurcated needle of the class described having the two parts thereof bulged outwardly at a point intermediate of its ends forming a resilient loop engaging and expanding means for the reception of another needle in transferring the loop from the bifurcated needle.

1,418,346. SIGNAL. ALFRED E. WITTIG, Rochester, N. Y. Filed Mar. 12, 1921. Serial No. 451,743. 8 Claims. (Cl. 116—50.)



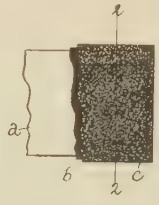
1. A signal comprising a suitable support, a sectional arm having the sections hinged together and adapted to be extended, the inner section being shorter than the intermediate sections and pivotally connected to the support substantially in a plane with the arm when extended, the sections being foldable to lie in overlapping relation in planes transverse of the projected plane of the arm, and operating means for the arm connected to the outer section extending through the other sections in a line which intersects the hinged connection of the inner member with the support.

1,418,347. PROTECTED METAL ARTICLE. JAMES HOWARD YOUNG, Pittsburgh, Pa., assignor to H. H. Robertson Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 26, 1921. Serial No. 455,967. 5 Claims. (Cl. 154—45.9.)



5. An article having applied thereto a layer of bituminous or like hydrocarbonaceous material and an insoluble weather-resisting layer composed of a comminuted bright metal and a binder of cellulose.

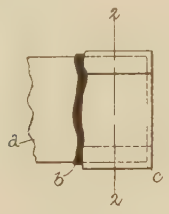
1,418,348. PROTECTED METAL ARTICLE. JAMES HOWARD YOUNG, Pittsburgh, Pa., assignor to H. H. Robertson Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 26, 1921. Serial No. 455,969. 1 Claim. (Cl. 154—45.9.)



As an improved article of manufacture, a protected metal article comprising an article of corrodible metal, a

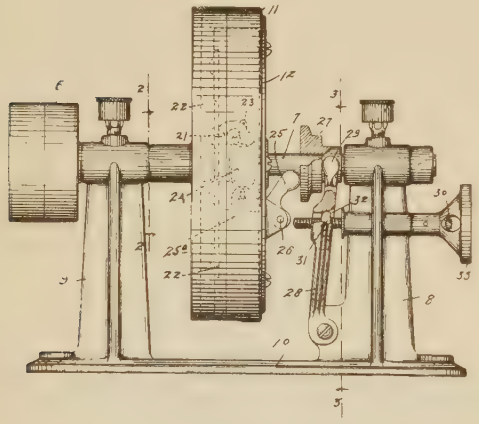
layer of bituminous or like hydrocarbonaceous material covering said corrodible metal, and a layer of metallized paper adhesively affixed to said hydrocarbonaceous material.

1,418,349. PROTECTED METAL ARTICLE. JAMES HOWARD YOUNG, Pittsburgh, Pa., assignor to H. H. Robertson Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 26, 1921. Serial No. 455,970. 3 Claims. (Cl. 154—45.9.)



1. As an improved article of manufacture, a protected metal article comprising an article of corrodible metal, a layer of bituminous or like hydrocarbonaceous material covering said corrodible metal, and a layer of vegetable parchment adhesively affixed to said hydrocarbonaceous material.

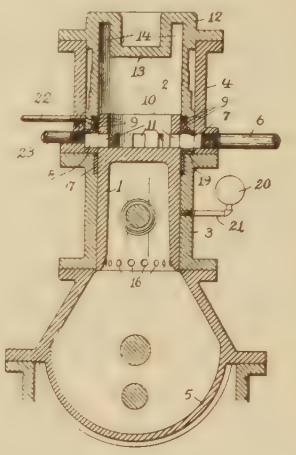
1,418,350. CENTRIFUGAL CLUTCH. CHARLES F. ASPLUND, Minneapolis, Minn. Filed Oct. 13, 1920. Serial No. 416,726. 6 Claims. (Cl. 192—104.)



1. The combination with a shaft and a pulley primarily loose thereon, said pulley having a rim with an internal friction surface, a disk secured to said shaft, spring-set centrifugally released clutch mechanism carried by said disk and operative on the friction surface of said pulley rim, said clutch mechanism including an adjusting lever that projects at the outer side of said disk, an annular shoulder on said shaft operative on the projecting end of said lever, an arm pivoted to a fixed support and operative on said shoulder, and a screw operative on said arm, to vary the predetermined speed at which said clutch mechanism will be thrown out of action by centrifugal force.

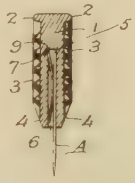
1,418,351. INTERNAL-COMBUSTION ENGINE. LEONARD ATWOOD, Boston, Mass. Filed Feb. 24, 1921. Serial No. 447,496. 5 Claims. (Cl. 123—193.)

1. An engine comprising a cylinder provided with packing rings intermediate of its length, and a piston reciprocative therein, the exhaust port of the cylinder being close beneath said rings, and the piston being provided with means for retaining said rings in place within the



cylinder when the piston is at its lower limit and uncovering said exhaust port.

1,418,352. SAFETY-RAZOR-BLADE HOLDER. EMMANN BACH and JAMES STUART, Woonsocket, R. I. Filed Aug. 1, 1921. Serial No. 488,847. 3 Claims. (Cl. 30—9.)



1. A safety-razor blade holder, comprising a body portion having a slot, one of the walls thereof being transversely grooved, and a leaf-spring removably disposed in said groove for frictionally holding a safety-razor blade against unintentional removal from said slot.

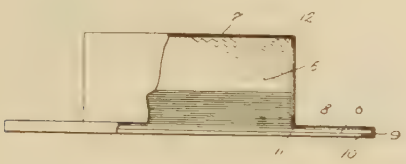
1,418,353. PROCESS OF PREPARING FIBROUS PULP MATERIAL. CARL BACHE-WIIG and JOHN BACHE-WIIG, Portland, Me.; said John Bache-Wiig assignor of eighty per cent of his interest to said Carl Bache-Wiig. Filed Aug. 21, 1920. Serial No. 405,087. 7 Claims. (Cl. 92—11.)

1. The process of preparing paper pulp material from straw like substances containing ligneous matter which consists in softening said substances with a chemical softening agent; subjecting said softened substance to a kollergang treatment; subjecting the resulting mass to a digesting action in the presence of a pulp forming liquor containing mixed acid and alkali compounds; and then subjecting the mass to a second kollergan treatment, substantially as described.

1,418,354. WATERPROOF COVERING FOR HATS. AUGUSTA BARNETT and MILTON I. STEINBERG, Brooklyn, N. Y. Filed Aug. 14, 1920. Serial No. 403,480. 1 Claim. (Cl. 2—108.)

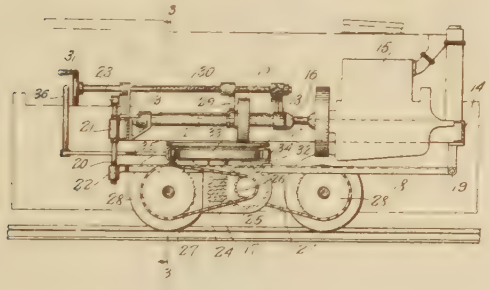
A rain-proof hat covering including a body portion formed from a single section of rubber, and including a crown covering portion and a brim covering portion, said brim covering portion having a band at its free end formed U-shaped in cross section, a rubber reinforcing band se-

cured within the first named band and formed U-shaped in cross section to receive the edge of the brim, a second rubber reinforcing band formed L-shaped in cross section and secured to the interior of the cover at the juncture of the crown and brim covering portions, and a third rubber



reinforcing band secured within the crown portion at the juncture of the horizontal and vertical portions thereof, all of said bands spacing the cover from the hat and serving to reinforce and thicken the former at their points of attachment.

1,418,355. FRICTION-DRIVE MECHANISM. HARVEY W. BELL, Yonkers, and HAZEN L. HOYT, Jr., Great Neck, N. Y. Filed Apr. 15, 1920. Serial No. 374,068. 13 Claims. (Cl. 105—62.)



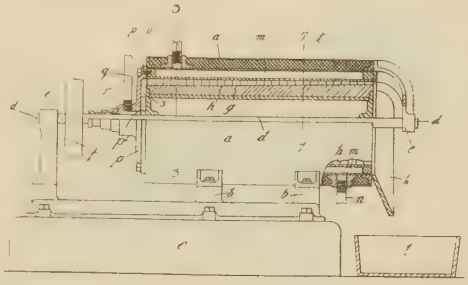
1. In apparatus of the character described, a frame, a driving pinion journaled in fixed bearings on said frame but adjustable longitudinally of its axis, a second frame, a friction disc journaled in the second frame and rotating on an axis substantially at right angles to the axis of the pinion, and means for shifting said second frame and friction disc bodily toward and away from the friction pinion.

1,418,356. TREATMENT OF LEUCITIC ROCKS FOR THE PURPOSE OF RENDERING POTASSIUM COMPOUNDS AVAILABLE. GIAN ALBERTO BLANC and FELIX JOURDAN, Rome, Italy. Filed Oct. 21, 1920. Serial No. 418,579. 2 Claims. (Cl. 23—22.)

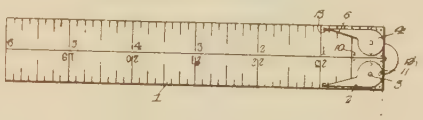
1. Process for making directly available the potash contained in leucitic rocks which consists in calcinating the leucite, reducing it to an impalpable powder, and then treating it with an organic acid.

1,418,357. APPARATUS FOR MAKING MARGARINE COMPOUNDS AND OTHER SUBSTANCES. HAROLD BORGEN, Urmston, and GEORGE WILFRID WADSWORTH, Flixton, England. Filed Mar. 12, 1921. Serial No. 451,922. 7 Claims. (Cl. 99—13.)

1. In apparatus for manufacturing margarine and other substances or compounds from emulsion or liquid ingredients, the combination with a stationary jacketed cylindrical vessel, of a rotating beating, kneading and propelling device composed of fins arranged in broken spiral formation and graduated in depth from the entering to the delivering end of said vessel.

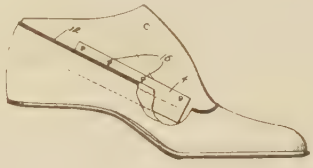


1,418,358. MEASURING RULE. GEORGE W. BOWEN, Bridgeton, N. J. Filed Mar. 31, 1919. Serial No. 286,271. 2 Claims. (Cl. 33—106.)



1. The combination with a measuring rule, of a metal tip embracing one end of the rule, a scriber pivotally connected to said tip, spring means associated with the pivot pin for frictionally holding the scriber against the tip and means for holding said scriber in extended and folded position.

1,418,359. METHOD FOR USE IN THE MANUFACTURE OF SHOES. JOSEPH BRUNELL, Brooklyn, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 28, 1921. Serial No. 488,194. 6 Claims. (Cl. 12—145.)

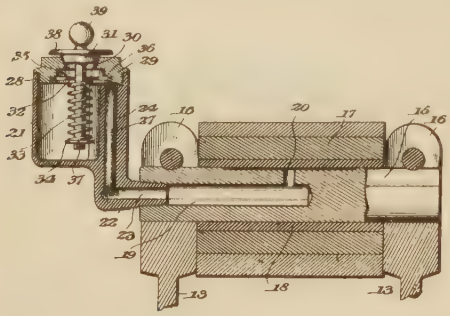


5. That improvement in methods of making shoes which consists in sewing to the lining or inner layer of the upper upon opposite sides of the shoe pieces of material in position to be exposed above the top line of the upper, assembling the upper upon a last, securing the exposed portions of the pieces to the last so as to prevent the upper from being displayed by the strain of lasting the upper, then lasting the upper, detaching the tabs from the last, removing the last, and destroying the seam which holds the pieces to the upper to permit removal of the pieces.

1,418,360. MOTOR VEHICLE. HAROLD D. CHURCH, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 7, 1917. Serial No. 206,097. 6 Claims. (Cl. 184—64.)

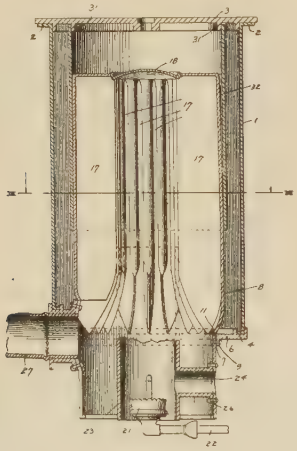
6. An oiler comprising a body having a receptacle for receiving oil, a channel adjacent the wall of said body and having its upper end open and communicating with the

interior of the body and its lower end communicating with the part to be oiled, a wick extending into said chan-



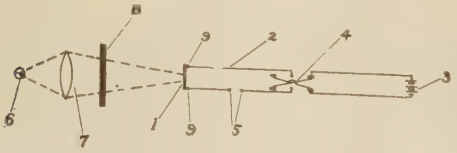
nel and into said body and a lip formed on the channel for retaining the wick in position adjacent the wall of said body.

1,418,361. HEATER. LOUIS F. CLAUSING, Burlingame, Calif. Filed Dec. 5, 1921. Serial No. 520,035. 2 Claims. (Cl. 126—116.)



1. In a heater of the character described, a radiator comprising a strip of corrugated sheet metal bent into tubular form so as to present inner and outer channels, the walls defining the outer channels being joined at one end and the walls defining the inner channels being joined at the other end.

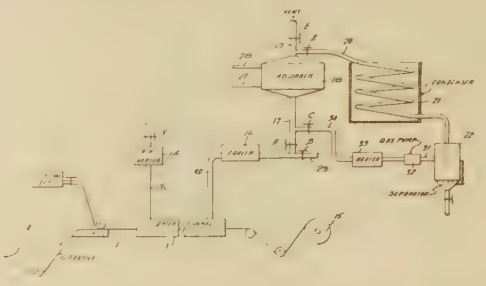
1,418,362. ELECTRICAL RESISTANCE. WILLIAM W. COBLENTZ, Washington, D. C. Filed Sept. 22, 1920. Serial No. 412,049. 6 Claims. (Cl. 219—76.)



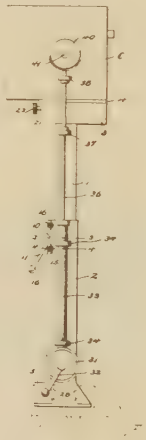
1. An electrical resistance composed of molybdenite.

1,418,363. PROCESS FOR THE RECOVERY OF VOLATILE SOLVENTS. GEORGE W. COGGESHALL and THOMAS M. RECTOR, Washington, D. C., assignors to The Institute of Industrial Research, Inc., Washington, D. C., a Corporation of the District of Columbia. Filed Mar. 11, 1920. Serial No. 365,104. 3 Claims. (Cl. 252.)

1. The method of recovering condensable volatile solvents which have been adsorbed on solid materials with subsequent heating to drive off the adsorbed vapors characterized by this that during the heating a current of incondensable gas is passed over the adsorbent, the resulting mixed gas and vapor being passed through a condenser to condense said solvent and the incondensable gas being returned from the condenser and the adsorber during the heating operation.



1,418,364. PERISCOPE ATTACHMENT FOR MOTION-PICTURE CAMERAS. WILLIAM C. COX, Washington, D. C. Filed June 16, 1920. Serial No. 389,513. 2 Claims. (Cl. 88—17.)



1. An attachment of the character described, comprising a periscope composed of telescopically engaged sections, a series of teeth on one wall of the outer section, said section having a longitudinal slot formed therein adjacent the series of teeth, a second series of teeth on the adjacent wall of the inner section extending through said slot to a point in proximity to the first series of teeth, a shaft slidably mounted in bearings in the outer section carrying a pinion normally meshing with the second series of teeth but engageable, at times, with said first series of teeth to lock the several telescopic sections in adjacent relation, camera supporting means on the finder end of the periscope, and means on one side of the periscope for transmitting driving motion to the camera shutter.

1,418,365. SPOOLING MACHINE. JULIEN F. CULLEN, Cumberland, Md., assignor to Kelly-Springfield Tire Company, Cumberland, Md., a Corporation of New Jersey. Filed May 9, 1921. Serial No. 467,939. 4 Claims. (Cl. 242—59.)

3. A spooling device comprising a double-ended table having substantially duplicate and opposed mechanisms, each comprising; a power driven wind-up spool; a friction-retarded stock spool; a conveyor cloth adapted to unwind from the stock spool and be rewound upon the

wind-up spool; a slot in the table through which the conveyor cloth is threaded; driving means for the wind-up spool comprising a friction disk on the spool and a friction wheel on the driving shaft; means for shifting the wind-up spool transversely with respect to the friction wheel, and shifting means comprising a fixed roller on the

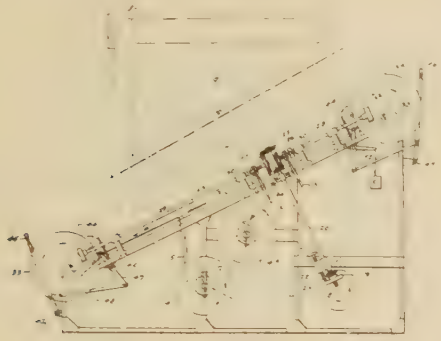
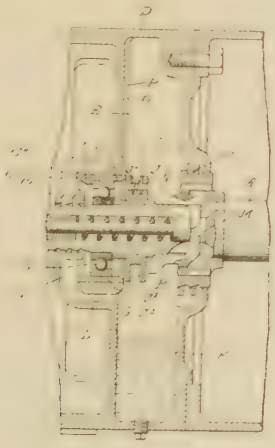


table adapted to contact with the surface of the wound up stock on the spool whereby the peripheral velocity of the stock-wound spool is automatically maintained approximately constant; and a primary spool-driving mechanism comprising a speed varying means and selective clutches whereby the wind-up spools may be selectively or simultaneously operated.

1,418,366. SHAFT BEARING. CHARLES W. DAKE, Chicago, Ill., assignor to The Pyle-National Company, Chicago, Ill., a Corporation of New Jersey. Filed Aug. 9, 1920. Serial No. 402,254. 22 Claims. (Cl. 64—32.)



1. A casing having an oil chamber therein with a laterally projecting pocket in the side thereof, in combination with a shaft which passes through the chamber and pocket, and a shaft bearing comprising a ring loosely fitted in the pocket and a bearing between the ring and the shaft.

1,418,367. ELECTRICAL MEASURING INSTRUMENT. HUGH L. DECKER, Toledo, Ohio, assignor to The W. G. Nagel Electric Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 14, 1919. Serial No. 271,052. 5 Claims. (Cl. 171—95.)

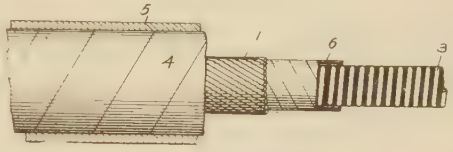
1. In an instrument of the class described, a frame of magnetic material having spaced arms forming north and south poles and having a connecting piece forming a keeper at their inner ends, and a permanent magnet bar carried by the frame at the inner ends of said arms and in spaced relation to said connecting piece whereby a complete path for the magnetic flux in the permanent magnet is provided through said piece.

5. In an instrument of the class described, a magnetic frame of substantially H-form having the arms at one side of its cross bar forming north and south poles and the arms at the other side of its cross bar, each provided with a plurality of spurs and a permanent magnet bar carried by the frame in spaced relation to its cross bar and held thereto by engagement of the frame spurs therewith.

1,418,368. PROCESS OF OXIDIZING OLEFINES, ETC. CARLETON ELLIS, Montclair, N. J., assignor, by mesne assignments, to Seth B. Hunt, trustee, Mount Kisco, N. Y. Filed May 17, 1918. Serial No. 235,118. 6 Claims. (Cl. 260—134.)

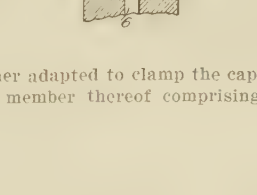
1. The process of producing ketones and fatty acids from acid extract of olefines of cracked petroleum which comprises treating the diluted extract with nitric acid.

1,418,369. METHOD OF FILLING THE INSULATION OF HOLLOW CABLES AND PRODUCT THEREOF. HENRY W. FISHER and RALPH W. ATKINSON, Perth Amboy, N. J., assignors to Standard Underground Cable Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 28, 1920. Serial No. 406,653. 9 Claims. (Cl. 173—264.)



7. The method herein described of building an electric cable which consists in surrounding a hollow conductor in an envelope of permeable insulating material, placing the thus far assembled cable in a container, introducing in liquid condition into the hollow within the cable a filling substance of normally viscid nature rendered liquid by heat and maintaining inequality of pressure upon the liquid so introduced and upon the exterior surface of the cable until the filling substance has impregnated the envelope, filling the container while the cable continues within it with liquid insulating material, and allowing the cable to cool while so submerged.

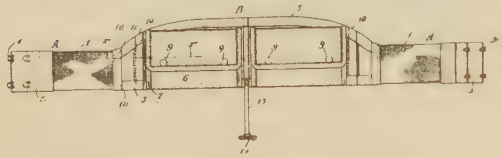
1,418,370. CONDUIT FASTENER. JOHN M. FITZ GERALD, Chicago, Ill. Filed Aug. 15, 1917. Serial No. 186,261. 11 Claims. (Cl. 247—35.)



1. A fastener adapted to clamp the capping of a conduit to the trunk member thereof comprising a shoe adapted

to receive said trunk member, a clamping member adapted to embrace said shoe and to engage said capping to hold the latter in position on said trunk member, and means, interposed between the side walls of said shoe and the side walls of said clamping member and housed by the latter for holding said parts securely in position.

1,418,371. MONEY BELT AND SUPPORTER. CATHERINE FOSTER, Rochester, N. Y. Filed May 24, 1921. Serial No. 472,221. 4 Claims. (Cl. 224—5.)

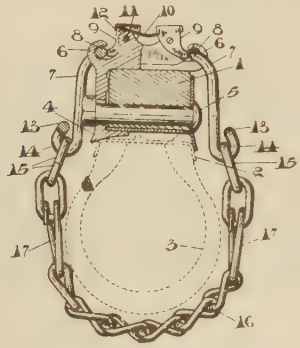


1. A money belt comprising a wide portion and a narrow portion, the wide portion being provided with a pocket and with transverse yielding stiffening ribs or stays arranged closely adjacent to the sides of the pocket, the pocket being coextensively secured to the belt so as to be held extended by the stays.

1,418,372. REFRACTORY MATERIAL AND PROCESS OF MAKING THE SAME. CHARLES A. FRENCH, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed June 14, 1920. Serial No. 388,969. 12 Claims. (Cl. 106—11.)

1. A refractory compound formed essentially from zirconium oxide and steatite.

1,418,373. TIRE CHAIN. STEWART GODDARD, Toronto, Ontario, Canada. Filed Nov. 23, 1921. Serial No. 517,358. 5 Claims. (Cl. 152—14.)

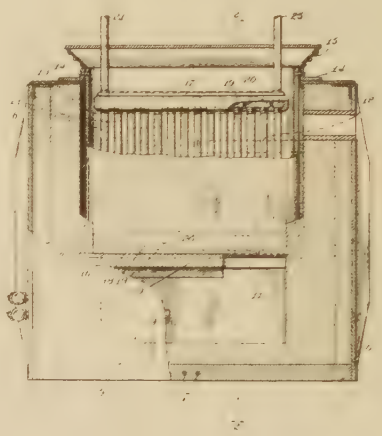


3. A wheel provided with a tire in combination with a plurality of tire chains side by side extending across the tire; two connector links, one at each side, to which the ends of the chains are connected; a securing member for a detachable rim; and hook members integral with said securing member engageable by said connectors.

1,418,374. WATERPROOFING COMPOSITION. GUSTUS H. HAVENS, Lansing, Mich. Filed Oct. 30, 1920. Serial No. 420,736. 6 Claims. (Cl. 106—27.)

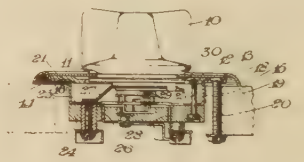
1. A waterproofing composition containing hydraulic cement, hydrated lime and an organic mucilaginous substance.

1,418,375. APPARATUS FOR TREATING PETROLEUM VAPOR. DANIEL W. HOGE, Chicago, Ill., assignor, by mesne assignments, to Bash Oil and Refining Company, Chicago, Ill., a Corporation of Delaware. Filed June 14, 1917. Serial No. 174,696. 17 Claims. (Cl. 196—1.)



1. An apparatus for treating petroleum vapor to obtain gasoline comprising a receptacle containing a bath of molten metal, bodily removable means in said receptacle consisting of a plurality of independent straight sections connected in pairs alternately at their ends to form a continuous conduit for the vapor, and means for heating said bath.

1,418,376. SWITCH. EDWARD N. JACOBI, Milwaukee, Wis., assignor to Briggs & Stratton Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 26, 1919. Serial No. 292,836. 8 Claims. (Cl. 200—168.)

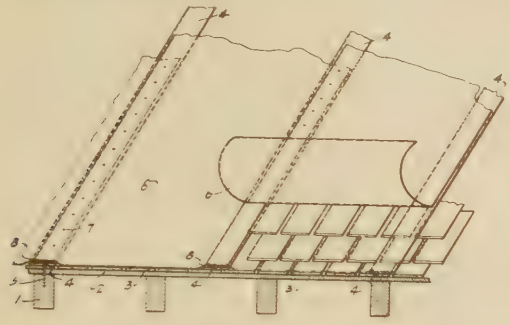


1. In a switch, a switch case having a countersunk flange forming a finished bezel, a plate fitting within the countersunk portion of the switch case flange and fixed thereto and provided with a finished front surface, and a switch handle movably fitting within an opening in the plate.

1,418,377. ROOFING. CHARLES B. JAYNES, Birmingham, Ala. Filed July 3, 1920. Serial No. 393,776. 4 Claims. (Cl. 108—1.)

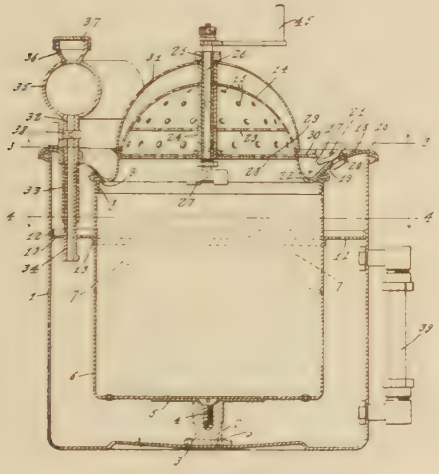
2. A roofing comprising the combination with an old shingle roof having spaced sheathing boards, of thin wide flexible attaching strips laid over the old shingles along the eave and on each side along the hips, and vertical strips rising from the eave strips to the butts of the top horizontal row of shingles along the ridges, composition roofing laid in sheets extending from eave to ridge or hip, each sheet having one side edge overlapping an attaching strip and its other side edge overlapping the adjacent edge of a sheet which itself overlaps another of said attaching strips, a layer of cement interposed between each pair of overlapping edges of the roofing

sheets, fastening nails driven through the lapped edges of the roofing sheets the interposed cement and the under-



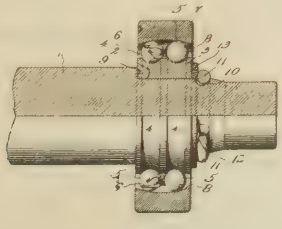
lying attaching strips into the underlying sheathing boards and shingles, and means to fasten said attaching strips to the sheathing boards, substantially as described.

1,418,378. COOKER. RUDOLF KANIA, Vindex, Md. Filed July 23, 1921. Serial No. 487,061. 5 Claims. (Cl. 53—1.)



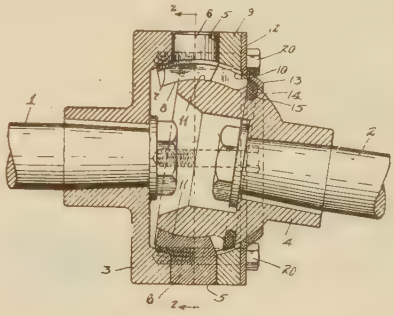
1. In a device of the character described, a main receptacle and an inner cooking receptacle, spacing blocks for supporting the inner cooking receptacle in spaced relation with the main receptacle, a cover having a flange, said cover adapted to close the receptacles, a tank supported above the flange, a pipe for providing communication between the tank and space between the receptacles, and adjustable means for regulating the discharge of fluid from the tank.

1,418,379. LOCKING DEVICE. JOHN D. KARLE, Roselle Park, N. J., assignor to Diehl Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Apr. 21, 1920. Serial No. 375,494. 10 Claims. (Cl. 287—52.)



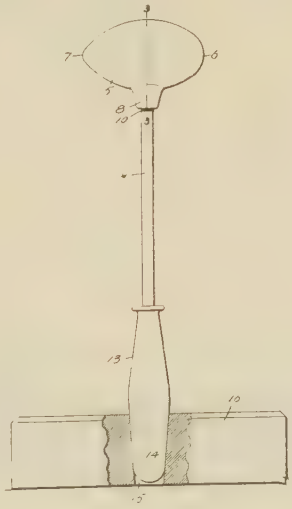
1. In combination, a shaft provided with a stop and an abutment, an element mounted on the shaft between said stop and abutment, and a resilient ring contractible and expansible both in outside and inside diameter and having camming action against said abutment to urge said element against the resistance of said stop.

1,418,380. UNIVERSAL JOINT. ROBERT KECK, Chicago, Ill., assignor to The Double-Drive Truck Company, Chicago, Ill., a Corporation of South Dakota. Filed July 23, 1918. Serial No. 246,284. 2 Claims. (Cl. 64—91.)



2. In a universal coupling, the combination of a driving and a driven shaft, hollow members rigidly secured to the ends of said respective shafts, spherical surfaces formed on the inner portion of the driving member and the outer portion of the driven member, a plurality of longitudinal grooves formed on the outer surface of said driven member, a packing groove formed circumferentially of said driven member adjacent its outer end, a packing ring seated in said groove and adapted to wipe the inner surface of said driving member, a cover plate mounted on said driving member and adapted to contact with the outer surface of said driven member and with said packing ring at its greatest outward distance of travel, a plurality of ribs having spherical top and bottom surfaces and lateral shoulders forming spherical bearing contacts, interposed between the driving and driven members and their lower portions closely received within said grooves formed in the outer surface of said driven member, positioning studs formed on the forward ends of said respective ribs, and sockets in said driving member receiving said studs.

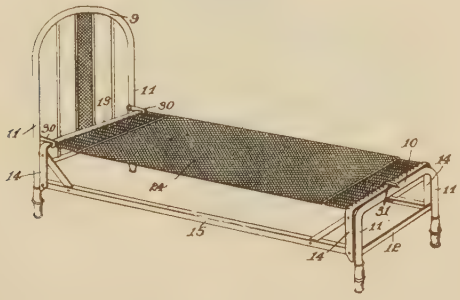
1,418,381. SHAPING AND IRONING TOOL. FREDERICK E. KERN, St. Louis, Mo. Filed Oct. 18, 1920. Serial No. 417,707. 3 Claims. (Cl. 223—28.)



1. A shaping and ironing tool for milliners' use comprising an ovoid head adapted to be heated and having

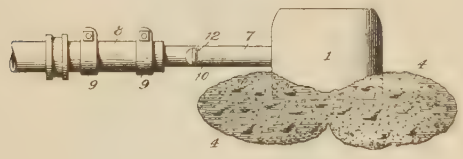
its top and sides curved alike and merging in one direction into a rounded end brought to a blunt point, and in the opposite direction to a rounded end less sharply defined than that first mentioned, and a handle by which the head is manipulated.

1,418,382. BED. AUGUST J. KREUZKAMP, Chicago, Ill., assignor to Englander Spring Bed Company, Brooklyn, N. Y., a Corporation of New York. Original application filed June 4, 1921, Serial No. 475,005. Divided and this application filed Feb. 10, 1922. Serial No. 535,458. 10 Claims. (Cl. 5—4)



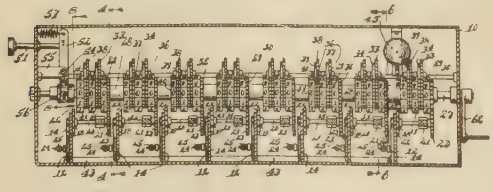
1. A knockdown bed structure comprising a head and a foot, the latter including a cross member terminating in depending portions, a detachable mattress section therebetween and comprising an end bar adapted to be located in juxtaposition to said cross member, said section being connected with the head by sliding connections at one point and swinging hook connections at another, and connected to the foot by sliding connections, and a laterally swinging hook connection at a point intermediate the ends of the end bar, said last hook connection being carried by the cross member and adapted to hook over the top of said juxtaposed end bar.

1,418,383. AUTOMOBILE WASHER. FRANK J. McGOWAN, Mechanicsville, N. Y. Filed Oct. 7, 1920. Serial No. 415,334. 4 Claims. (Cl. 15—130.)



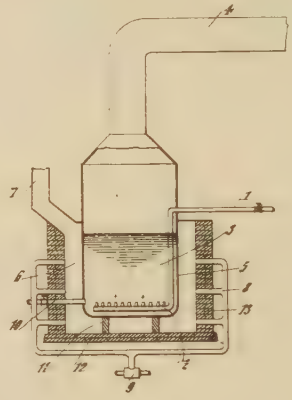
1. A device of the character described comprising a head, a U-bolt extending through the head and provided with notches, a plate rotatable connected to the head and adapted to engage in the notches of the U-bolt, and a sponge carried by the U-bolt.

1,418,384. BLOOD-CELL CALCULATOR. MYER M. MARBEL, Chicago, Ill. Filed June 14, 1919. Serial No. 304,334. 3 Claims. (Cl. 235—91.)



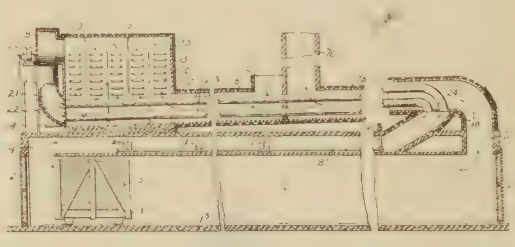
1. In a device of the class described, a housing, a shaft mounted in said housing, a series of discs mounted on said shaft, consecutive numbers on the periphery of each disc, a series of longitudinally movable actuating shanks extending into said housing, arms extending from said shanks in one direction and shoulders extending from said shanks in the opposite direction, a series of ratchet wheels individually mounted and operated by the arms on said shanks, there being a shank for each ratchet wheel, a plurality of gear wheels operatively connecting each ratchet wheel with its associated disc, a horizontal bar operated by said shoulders, and a totalizing register mounted on said shaft and actuated by the vertical movement of said bar.

1,418,385. METHOD OF MANUFACTURING CARBON BLACK, LAMPBLACK, AND HYDROGEN. HENRY JAMES MASSON, New York, N. Y., assignor to Julian M. Gerard, New York, N. Y. Filed July 17, 1920. Serial No. 396,984. 6 Claims. (Cl. 134—60.)



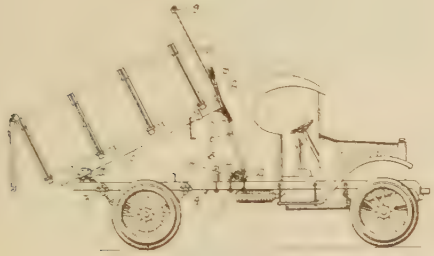
4. A method of decomposing a carbon containing substance to produce lampblack, carbon black and the like which consists in passing it through a body of catalytic molten material, the temperature of which is sufficiently high to decompose said substance into minute particles of carbon and hydrogen and removing the carbon thus formed from said molten material with sufficient rapidity to maintain the black color and softness of the carbon produced.

1,418,386. METHOD OF AND APPARATUS FOR DEHYDRATING MATERIAL. FRANK MAUS, San Jose, Calif., assignor of one-half to Siebren J. Spoelstra, San Jose, Calif. Filed Feb. 3, 1921. Serial No. 442,261. 4 Claims. (Cl. 34—3.)



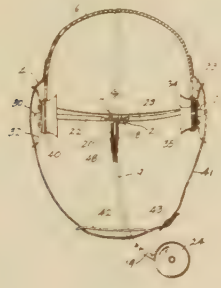
1. A dehydration apparatus comprising an air cooling chamber, a dehydration chamber, a conduit communicating with said cooling chamber and the atmosphere, a conduit communicating with said dehydration chamber and the atmosphere, a conduit connecting said chamber and operatively arranged with relation to said first mentioned conduits to absorb heat from the air passing therethrough, and means for causing air to circulate through said conduits and chambers.

1,418,387. TRUCK-HOIST. WILLIAM G. MAYER, Pittsburgh, Pa. Filed Feb. 25, 1921. Serial No. 447,736. 2 Claims. (Cl. 298—19.)



1. In combination with a truck frame and a tiltably mounted body, a boom carried by the frame, an operating shaft rotatably mounted on the frame, two drums of different diameters secured on said shaft, sheaves carried by the boom, a sheave secured to the body below and between the boom sheaves, and a cable passed over the boom sheaves and under the body sheave, said cable being wound upon the drums in opposite directions.

1,418,388. SPEAKING-TUBE APPARATUS FOR AIRCRAFT. BENJAMIN F. MIESSNER, New York, N. Y. Filed May 8, 1918. Serial No. 233,345. 13 Claims. (Cl. 181—25.)

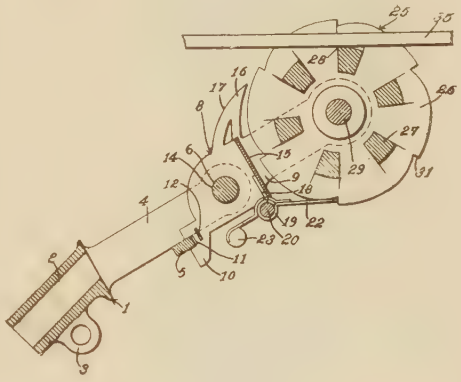


4. Speaking tube apparatus for use where regular and rapid extraneous sound vibrations would otherwise interfere with voice communication, comprising a speaking tube having a length such that the column of air therein does not respond to said vibrations.

7. The combination with a helmet, of a speaking tube connection mounted on the helmet, two speaking tube ear receivers carried by said helmet and connected by branch tubing with said speaking tube connection, and means for resiliently pressing said receivers over the ears of the wearer of the helmet, said last mentioned means comprising short spring pieces secured to said receivers and an adjustable strap having its ends secured to the sides of the helmet and adapted to extend beneath the chin of the wearer and bearing against the ends of said spring pieces.

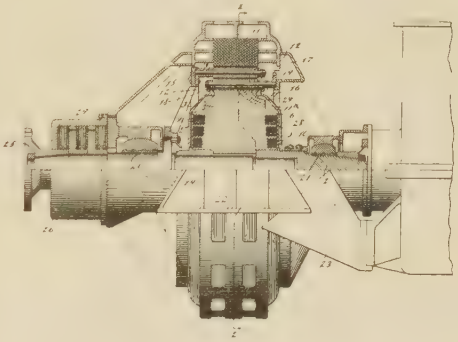
11. A combined speaking tube and telephone receiver, comprising a casing having an earpiece provided with a sound opening, a diaphragm mounted within the casing, an electromagnet for vibrating the diaphragm, an air tube connection to the interior of the casing, and a passage for sound vibrations extending from the interior of the casing to the sound opening in the earpiece.

1,418,389. SLEET CUTTER. GILES S. MOORE and OTTO MOORE, Frankfort, Ind.; said Giles S. Moore assignor of his entire right to Automatic Sliding Trolley Company, Frankfort, Ind., a Corporation. Filed July 27, 1921. Serial No. 487,948. 4 Claims. (Cl. 191—62.)



1. In a device of the class described, a frame; a wheel journaled in the frame and provided with cutting edges; and a pawl carried by the frame, the pawl coacting with the wheel to hold any of said edges in operative position.

1,418,390. DYNAMO-ELECTRIC MACHINE. ALFONS H. NEULAND, Glendale, Calif., assignor to Neuland Electrical Company, Inc., San Francisco, Calif., a Corporation of New York. Filed Jan. 23, 1918, Serial No. 213,306. Renewed Nov. 16, 1921. Serial No. 515,693. 16 Claims. (Cl. 290—29.)

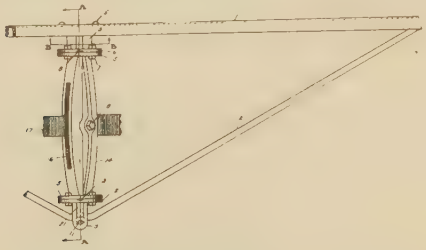


1. In a dynamo-electric machine, in combination with a rotative field member and a stationary member to complete the flux path, a secondary rotatable magnetic member interposed between the field and stationary members and comprising a plurality of spaced longitudinally extending supporting rods, and a plurality of magnetic conductors arranged in the successive spaces between the rods, each magnetic conductor being supported on opposite sides by two adjacent supporting rods.

1,418,391. BRAKE BEAM. RICHARD HUGHES OLIVER, Bridgeburg, Ontario, Canada. Filed Mar. 31, 1921. Serial No. 457,173. 3 Claims. (Cl. 188—232.)

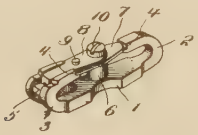
1. In a brake beam, in combination, a beam, a brace, a head permanently secured to said beam, a head comprising a casting slotted at one end to receive said brace and adapted to be locked thereto by means of a pin extending

across said slot, said heads being enlarged to form flat faces oppositely disposed in relation to one another, said



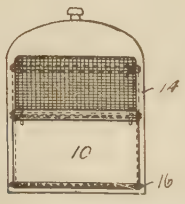
faces being provided with bolt holes therethrough, and a strut having flat end surfaces adapted for engagement with said faces.

1,418,392. DETACHABLE LINK FOR VEHICLE-WHEEL ANTISKID CHAINS. RICHARD B. PADDOCK, Fort Sill, Okla. Filed Aug. 2, 1920. Serial No. 400,859. 1 Claim. (Cl. 24—241.)



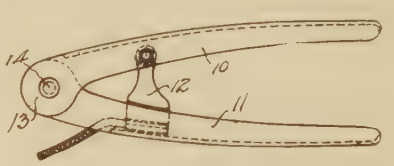
A link of the character described comprising a body portion having its opposite ends hooked, one of said hooked ends having a longitudinally disposed seat therein, and its outer portion cut away to form a shoulder adjacent to the outer end of said seat, each of the hooked ends having transverse seats formed in their inner extremities, a post arranged intermediate the hooked ends of the body portion, a piece pivoted intermediate its ends upon said post for horizontal movement and adapted to close the space occurring between the inner extremities of said hooked ends, the opposite ends of said piece engaging the seats in the extremities of the hooked ends, an arm pivoted for horizontal movement to said post having its free portion reduced and formed with a right angularly bent end portion, said reduced portion engaged in the longitudinally disposed seat, and means for connecting said arm to said piece for permitting of vertical movement therebetween, but adapted to prevent relative horizontal movement therebetween.

1,418,393. AUTOMOBILE RADIATOR COVER. JOSEPH W. PARKS, Altoona, Pa. Filed Nov. 24, 1920. Serial No. 426,259. 1 Claim. (Cl. 257—132.)



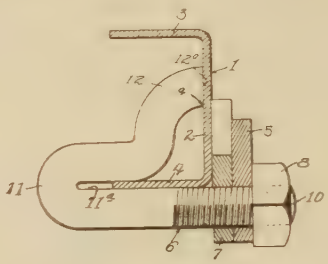
An adjustable automobile radiator protector consisting of a support having bendable ends adapted to be deformed to engage with the cellular portion of the radiator, a flexible shield carried by the support and adapted to be rolled thereupon to produce an operative portion of the desired length prior to the fitting of the support to the radiator, and a combined weight and reinforcement carried by the free edge of the shield.

1,418,394. TIPPING HAND TOOL. JOSEPH W. PARKS, Altoona, Pa. Filed Jan. 27, 1921. Serial No. 440,535. 4 Claims. (Cl. 81—15.)



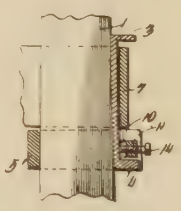
1. A shoe-string tipping tool of the class described, including a pair of lever members connected at one end, a tip forming seat formed between the ends of one of said members and a die plunger carried by the intermediate portion of the other member and having a die face complemental to said seat.

1,418,395. ATTACHING DEVICE FOR AUTOMOBILE BUMPERS. IRA D. PERRY, Chicago, Ill., assignor to Thos. D. Bell, Chicago, Ill. Filed Aug. 18, 1921. Serial No. 493,244. 7 Claims. (Cl. 293—55.)



5. An attaching device comprising a bolt bent to form a shank, a U-shaped portion forming a flange engaging slot extending parallel to said shank, and an offset portion extending beyond said U-shaped portion, and away from said shank, and terminating in an abutment face transverse to said shank.

1,418,396. LUG-STRAP SUPPORT. ROBERT T. POWERS, North Oxford, Mass. Filed Dec. 31, 1921. Serial No. 526,346. 2 Claims. (Cl. 139—48.)

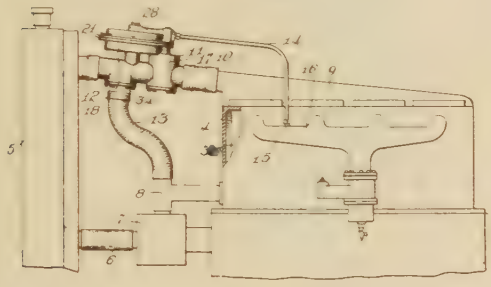


1. In combination, a picker stick, a lug strap therefor, a supporting bar including an angularly extending lip at each end, a U-shaped collar on said stick and receiving said supporting bar adjacent its lower terminal between its ends, the ends of said collar being provided with registering slots, a plate situated in said slots, and screw threaded through said plate for engagement with said supporting bar so that the same may be forced thereagainst so as to press the bar in frictional engagement with the picker stick.

1,418,397. CIRCULATING SYSTEM FOR INTERNAL-COMBUSTION ENGINES. CHARLES L. RAYFIELD, Chicago, Ill., assignor to Beneke & Kropf Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 8, 1917. Serial No. 195,492. 1 Claim. (Cl. 123—178.)

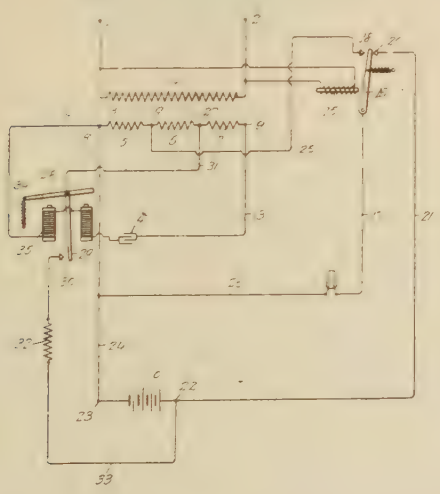
In a cooling system for internal combustion engines, a cooling jacket, a radiator, a pump, a conduit leading up-

ward from the pump, a conduit leading forward from said jacket, a butterfly valve in each of said conduits, said conduits joining in front of one valve and above the other valve, the junction being connected to the radiator, a horizontal pintle in each of said conduits on which the respective butterfly valve is mounted, the butterfly valves being nearly vertical at cool temperature, whereby the valve in the upward passage is open and the valve in the forward passage is closed when the temperature is cool, each of said valves having a projection extending toward the



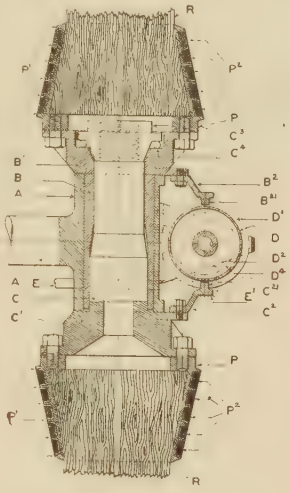
other valve, a common operating means acting upwardly on said projections, a pneumatic actuating device for said operating means, and a thermostatic device located behind the valve in the forwardly extending passage for controlling said pneumatic device, whereby when the temperature rises the thermostatic device will cause the pneumatic device to lift the operating means and so close the valve in the passage from the pump to the radiator and open the valve in the passage from the jacket to the radiator.

1,418,398. RECTIFIER SYSTEM. ALEXANDER C. REID, Genoa, Ill., assignor to Leich Electric Co., Genoa, Ill. Filed June 24, 1920. Serial No. 391,380. 8 Claims. (Cl. 171—314.)



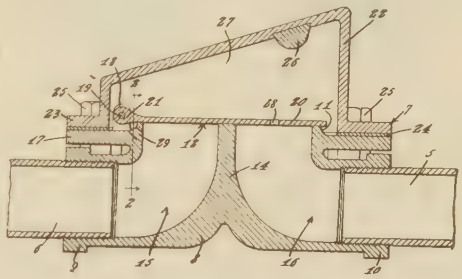
1. A system of the character described comprising, a winding serving as a source of alternating current, a consumption circuit, a battery, a rectifier proportioned to operate synchronously and connected to said source of alternating current and feeding rectifier current to said battery, the connections being such that said recified current is obtained from said source of alternating current at a voltage differing from the voltage utilized for actuating said rectifier, and means responsive to electrical conditions of said source of alternating current for alternatively associating said consumption circuit with said battery and source of alternating current respectively.

1,418,399. ADJUSTABLE PROPELLER DEVICE. WILLIAM COLIN RUSSELL, East Sheen, England. Filed Dec. 16, 1919. Serial No. 345,300. 5 Claims. (Cl. 170—163.)



1. The combination with a propeller shaft and a propeller having blades pivotally mounted in the propeller hub, of a tubular pivot formed with an end plate, a conical split metal socket secured to said plate in which socket the butt end of one of the blades is secured, a winding of high tensile strength about said socket, an inner pivot passing through and supported in the tubular pivot and formed with an end plate, a conical split metal socket secured to said end plate in which socket the butt end of the other of the blades is secured, a winding of high tensile strength about said socket, a laterally extending lever on each of said pivots, a nut head on the projecting end of the inner pivot, a thrust bearing between the said head and the end of the tubular pivot, and means actuated by the propeller shaft for operating the said laterally extending levers so as to turn the said pivots in opposite directions in the propeller hub.

1,418,400. AIR-BRAKE DETAIL. MICHAEL H. RYAN, San Bernardino, Calif., assignor of one tenth to Julius J. Peyron, San Bernardino, Calif. Filed Dec. 9, 1920. Serial No. 429,443. 3 Claims. (Cl. 303—42.)

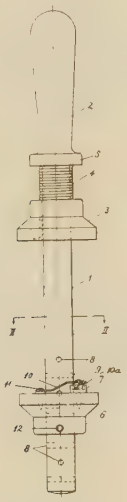


1. In a device of the class described, a casing provided with a chamber and having a partition defining passages; and a valve hingedly mounted in the casing between the chamber and the passages, the valve having a restricted port establishing communication between one passage and the chamber, the casing having a restricted port establishing communication, independently of the valve, between the other passage and the chamber.

1,418,401. SOUNDING TOY. PAUL C. SCHMIDT, New York, N. Y. Filed Oct. 9, 1920. Serial No. 415,715. 4 Claims. (Cl. 46—46.)

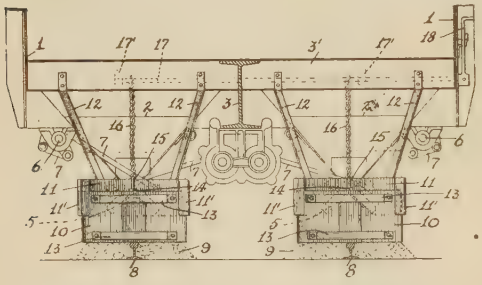
1. In an instrument of the nature described, a member adapted to be swung by the user, means associated with

said member for moving relatively to said member owing to the momentum generated therein, a resilient device for normally holding said means in a nonoperative posi-



tion, an explosive device arranged to be operated by said means during the movement thereof, and means for adjusting the distance of movement of said means necessary to set off said explosive device.

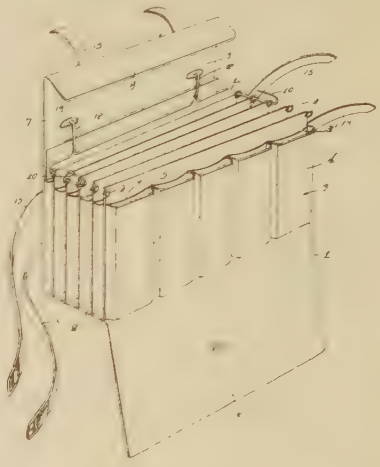
1,418,402. BALLAST CAR. WILLIAM R. SCOTT, Houston, Tex. Filed Apr. 6, 1921. Serial No. 459,079. 2 Claims. (Cl. 37—58.)



1. In a ballast car means overlying each rail of the road-bed for dumping material thereupon, a rail clearing and spreading member with divergent wings, under the car to the rear of the dumping means and in advance of the car-wheel, adapted to clear from the rail the material dumped and spread it sidewise; a housing guide of substantially the shape of said member and in which it is slidably mounted for adjustment to and from functional position; means for fixedly carrying said housing guide under the car; and means for adjusting the rail-clearing and spreading member.

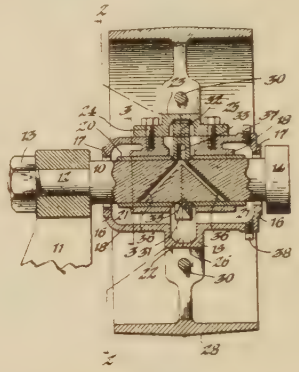
1,418,403. MAIL SACK. EUGENIA M. SMITH, Waseca, Minn. Filed June 7, 1921. Serial No. 475,653. 4 Claims. (Cl. 150—14.)

1. A mail sack comprising an elongated body portion constructed of flexible material, a plurality of transverse cross flaps having each marginal edge secured to the body portion, a series of pockets formed on each cross flap, the pockets being less in length than the width of the cross flap whereby a portion of the cross flap is exposed above each pocket, and clip elements adapted to be



connected to the flaps to maintain the flaps and pockets in closely assembled position when the pockets are filled.

1,418,404. MOUNTING FOR WHEELS. HARRY J. SMITH, Lakewood, Ohio. Filed Jan. 30, 1920. Serial No. 355,264. 4 Claims. (Cl. 64—26.)



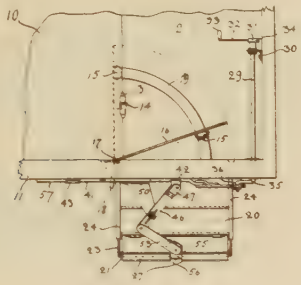
1. A wheel mounting comprising a relatively stationary horizontal arbor, a hollow hub which is journaled on said arbor, one part of the cavity within the hub being of larger diameter than another part and forming an oil well, and an oil directing device comprising a collar secured to said arbor in line with said well and provided with a wing projecting into said well close to the bottom thereof and having an oil duct leading from that side of the wing toward which the wheel turns to the bearing surfaces between the arbor and hub, said collar being split and those parts of the collar on opposite sides of the split thereon being connected by a screw.

1,418,405. ANTISTATIC PHOTOGRAPHIC FILM. ALBERT F. SULZER, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 25, 1921. Serial No. 464,310. 4 Claims. (Cl. 95—9.)

1. An anti-static photographic film having a sensitive coating and a support therefor comprising sufficient nitro-

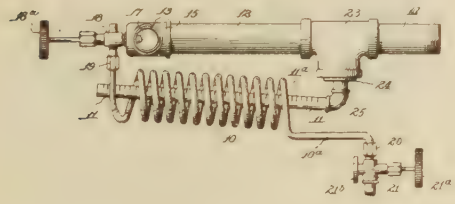
cellulose to produce, if alone, static markings in said coating, and sufficient cellulose ether to prevent said static markings being formed in said coating.

1,418,406. DOOR OPENER FOR RAILROADS. JOE SZCZUREK, Chicago Heights, Ill. Filed Mar. 22, 1922. Serial No. 545,705. 3 Claims. (Cl. 105—427.)



1. A device of the character described comprising in combination with the hinged vestibule doors, hinged step covers and extensible steps of passenger cars, a slotted operating rod slidably secured to the bottom of the car, the pintle of the hinge of said step covers extended through the slot of said rod, a system of levers adapted to be operated by said rod to extend or fold the extensible step, means for manually operating said rod, a curved guide strip on said door, a roller secured to the under face of said step cover adapted to be guided along said guide strip, and springs at the hinges of said door for automatically opening said door upon its release by said roller.

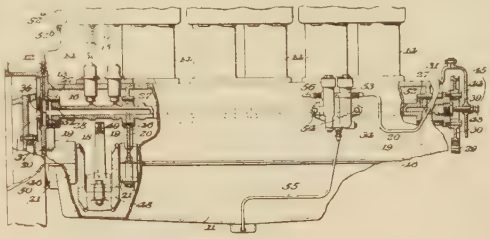
1,418,407. GAS GENERATOR FOR OIL BURNERS. NICHOLAS J. VERRET, Memphis, Tenn. Filed May 25, 1921. Serial No. 472,469. 8 Claims. (Cl. 158—61.)



1. A generator or gas producer for oil burners comprising a mixing-chamber to which the main burner is connected, an auxiliary burner pipe located below and adjacent to said mixing chamber for heating the same, said auxiliary burner pipe being connected to the mixing-chamber to receive fuel gas therefrom, a retort around the auxiliary burner pipe, a valve receiving the vaporized oil from the retort and discharging it into the mixing-chamber, and air inlets to the mixing-chamber.

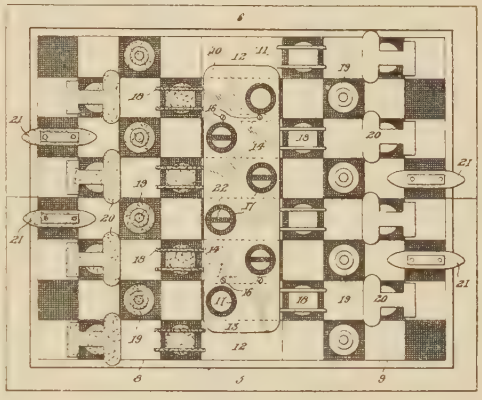
1,418,408. HYDROCARBON MOTOR. JESSE G. VINCENT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Original application filed Oct. 14, 1912, Serial No. 725,741. Divided and this application filed Apr. 18, 1918. Serial No. 229,428. 8 Claims. (Cl. 184—6.)

1. In a motor, the combination with the crank shaft, a valve operating shaft, and driving gears between said shafts creating end thrust on the valve shaft, of an abutment at one end of said shaft, and means for feeding



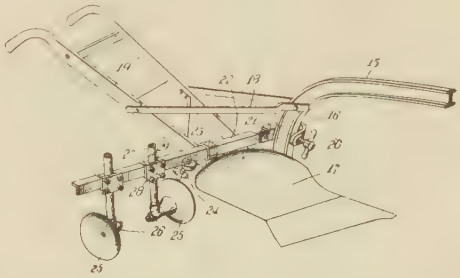
oil under pressure between said abutment and said shaft end to resist said end thrust.

1,418,409. GAME APPARATUS. FRANK T. WAKEFIELD, Pittsburgh, Pa. Filed Apr. 10, 1920, Serial No. 372,803. Renewed Apr. 18, 1922. Serial No. 555,238. 9 Claims. (Cl. 46—64.)



1. A game apparatus comprising a game board having on its face two similar checkered sections connected by transverse rows of checkered spaces defining a safety zone on the face of the board for certain game pieces of the apparatus, and means providing elevated landing places for other game pieces of the apparatus at said safety zone.

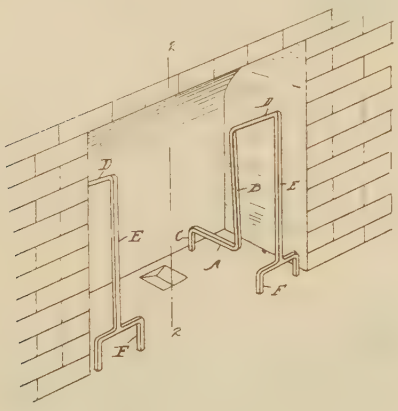
1,418,410. ATTACHMENT FOR PLOWS. JOHN B. WALLACE, Mukwonago, Wis. Filed May 20, 1920. Serial No. 382,702. 3 Claims. (Cl. 97—44.)



1. A plow attachment of the class described, comprising a supporting frame adapted to be secured to the plow-frame so as to extend across the furrow-slice, means whereby said frame is secured to the plow-frame against movement, harrow elements secured at predetermined points to said frame so as to be drawn through the

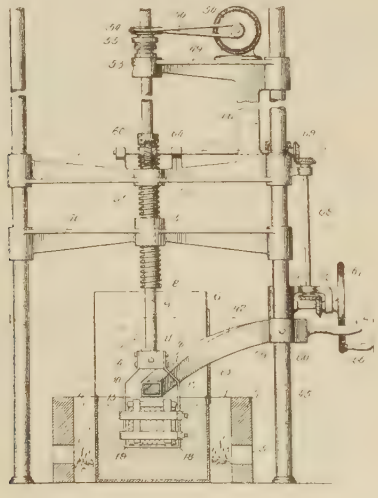
furrow-slice lengthwise at such points, and means whereby the elements are adjustably secured to said frame and held against movement and maintained in a fixed plane relative to the plow-share whereby said elements are caused to enter the furrow-slice to a depth commensurate with the depth of the cut of the plow-share.

1,418,411. ANDIRON. WILLIS C. WARD, Orchard Lake, Mich. Filed Nov. 29, 1920. Serial No. 427,027. 7 Claims. (Cl. 126—298.)



1. An andiron comprising a horizontal portion and a vertical portion extending from the front end thereof, and a forwardly extending inclined runway connected to the top of the vertical portion for directing the logs onto the horizontal portion and in rear of the vertical portion.

1,418,412. METHOD OF METAL COATING AND APPARATUS THEREFOR. EDWARD L. WATROUS, El Paso, Tex.; Agnes B. Watrous being executrix of said Edward L. Watrous, deceased. Filed Apr. 24, 1918. Serial No. 230,400. 9 Claims. (Cl. 91—59.1.)



1. In galvanizing apparatus, a tank for containing a spelter bath, a detachable receptacle to hold the articles to be coated, a depending removable hollow head to slidably receive said receptacle within itself, means for immersing said receptacle in said bath and removing the same therefrom, and means for rotating said receptacle above said bath.

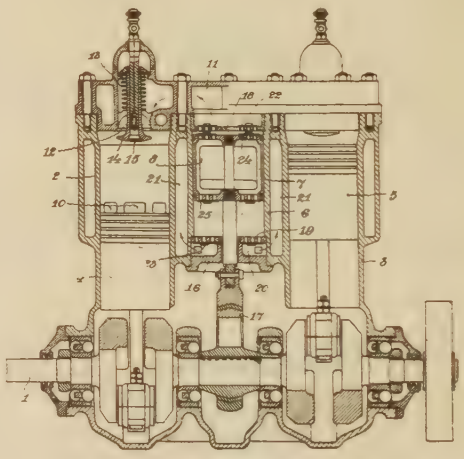
1,418,413. CELLULOSE-ETHER SOLVENT AND COMPOSITION. WILLIAM R. WEBB, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 10, 1921. Serial No. 436,309. 4 Claims. (Cl. 134—79.)

1. A flowable film-forming composition, comprising cellulose ether dissolved in a mixture of carbon tetrachlorid and a monohydroxy aliphatic alcohol of less than 3 carbon atoms.

1,418,414. PROCESS OF MAKING UNSATURATED HYDROCARBON MATERIAL. ALFRED A. WELLS, Montclair, N. J., assignor, by mesne assignments, to Seth B. Hunt, trustee, Mount Kisco, N. Y. Filed Oct. 9, 1916. Serial No. 124,599. 3 Claims. (Cl. 196—25.)

1. The process of cracking hydrocarbon oils under high pressure until still bottoms of a tarry consistency are formed, distilling such still bottoms, and recracking the distillate under pressure lower by at least one atmosphere than that at which originally cracked, whereby hydrocarbon material is obtained rich in unsaturated hydrocarbons adapted for extraction with sulfuric acid without undue rise in temperature.

1,418,415. TWO OR MULTI CYLINDER INTERNAL-COMBUSTION ENGINE. ARTHUR OSKAR LEONARD WENNERBY, Halmstad, Sweden. Filed Jan. 30, 1922. Serial No. 532,880. 2 Claims. (Cl. 123—59.)

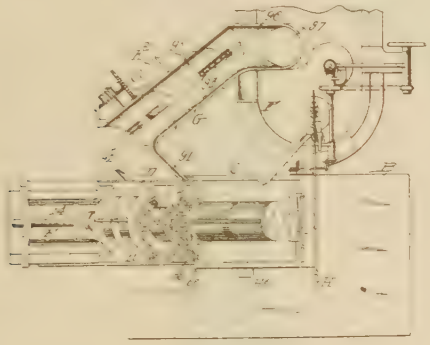


2. Compression and fuel spraying device for internal combustion engines having more than one cylinder comprising a double acting compression pump having its cylinder arranged between two adjacent working cylinders; a piston arranged in the first-mentioned cylinder and driven from the crank shaft of the engine with the same speed as the working pistons, valves arranged at both ends of the pump cylinder and connecting said ends with a common compression chamber for all of the working cylinders, a common cover arranged at the other ends of all of the cylinders and forming the compression chamber, said chamber surrounding as well the fuel nozzles and valves for introducing the compressed air into the working cylinders and the latter being carried out in the form of sleeves surrounding the former in a slidable relation thereto.

1,418,416. PAINTING MIXTURE. VARNUM WILLIAMSON, Glens Falls, N. Y. Filed Oct. 28, 1921. Serial No. 511,116. 1 Claim. (Cl. 134—44.)

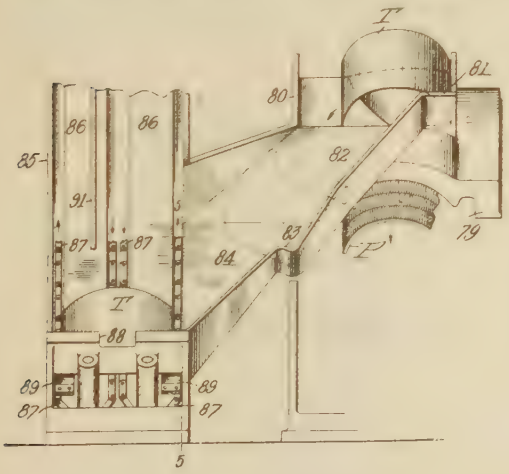
A painting mixture including one part of ordinary paint, two parts of cement, and one part of linseed oil.

1,418,417. DEVICE FOR DELIVERING STEREOTYPE PRINTING PLATES AND TAILS FROM A FINISHING MACHINE. HENRY A. WISE WOOD, New York, N. Y., assignor to The Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Original application filed Oct. 17, 1912, Serial No. 726,239. Divided and this application filed Jan. 14, 1920. Serial No. 351,366. 14 Claims. (Cl. 198—43.)



1. In a stereotype plate machine, the combination of an inclined runway, means for retarding the descent of a cast plate along the runway, a receiver, means for directing the tails and the plates in different paths, and means for catching the tails and moving them back upwardly to the receiver.

1,418,418. METAL-SUPPLYING DEVICE. HENRY A. WISE WOOD, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Original application filed Oct. 12, 1917, Serial No. 196,346. Divided and this application filed May 16, 1918, Serial No. 234,880. Renewed Dec. 7, 1921. Serial No. 520,691. 15 Claims. (Cl. 198—1.)



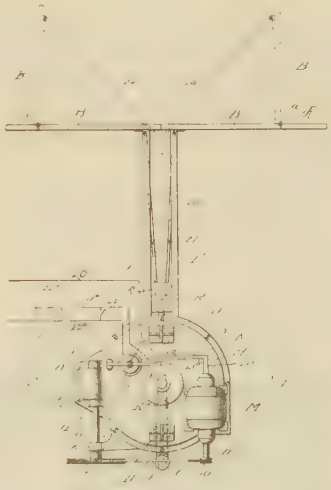
1. The combination with an inclined support for castings, and a pot for supplying metal to the mold in which the plates are cast, of means for delivering the severed concave castings from said inclined support by gravity on their straight edges turning them part way around therein while still resting on their straight edges and elevating them into the pot.

1,418,419. VALVE GRINDER. HARRY A. WRIGHT, Springfield, Mass., assignor to The Wright Multiple Valve Grinder Co., Fitchburg, Mass. Filed July 28, 1919. Serial No. 313,774. 4 Claims. (Cl. 51—29.)

1. In a valve grinder comprising a securing bar, a support pivoted thereto, a plurality of geared valve oscillating elements having spindles journaled in said support, a rack for operating said spindles, a lever fulcrumed on said support and movable in a plane at right angles to the axes of said spindles for operating said rack, the improvement consisting of a plurality of bosses projecting downwardly from the lowermost side of said support and in-

tegral therewith, said bosses and support having holes forming bearings therein for said spindles and springs surrounding said bosses, each having one end engaging said frame at the base of its boss and its other end in engagement with the lower portion of its valve oscillating element.

1,418,420. MEANS FOR OPERATING DOORS. HARRY G. AINSWORTH, Kentland, Ind. Filed May 2, 1921. Serial No. 466,252. 3 Claims. (Cl. 268—9.)

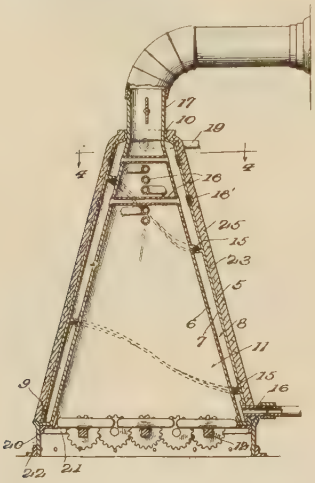


1. Operating means for a door, including, in combination with a fixed support and a hinged door, a housing, a rotatable shaft therein, a worm gear on the shaft within the housing and a crank on the shaft outside the housing, an electric circuit including a motor and a switch, means for driving the worm gear from said motor, a guide track connecting the housing with the fixed support, a member in the track and being in two parts, a link connecting the crank and said movable member, a push and pull bar connecting said member and the hinged door, and removable means for holding the two parts of the movable member in operative relation.

1,418,421. WATER HEATER. W HERBERT ALDRIDGE, Portland, Oreg. Filed Aug. 2, 1919. Serial No. 314,851. 1 Claim. (Cl. 122—183.)

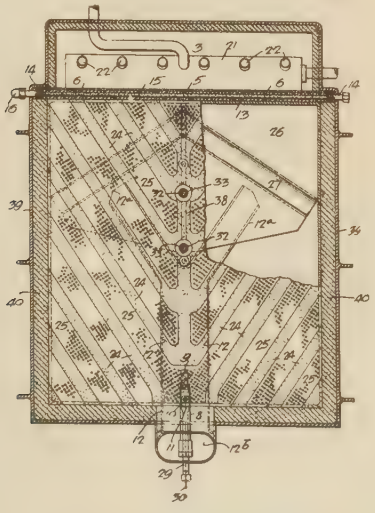
A water heater comprising a conical casing consisting of inner and outer conical shells connected at their lower ends and slightly diverging toward their upper ends to provide an intermediate water chamber, the upper extremity of the outer shell being flared inwardly and con-

nected to the inner shell and the upper extremity of said inner shell being extended upwardly beyond the outer shell to form a discharge stack having a damper therein, a smoke flue connected with the stack, a grate supported in the lower end of the inner shell, a plurality of water tubes extending diametrically across the upper end of the inner shell immediately below the stack and communicating with the interior of the water chamber, a spiral baffle plate arranged within the water chamber and ex-



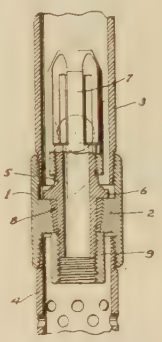
tending from end to end thereof, said baffle plate gradually increasing in width from the bottom to the top of the casing and having one edge thereof secured to the outer shell and its other edge spaced uniformly from the inner shell, an outlet leading from the outer shell at a point above the water tubes, and a return pipe leading into said outer shell at a point immediately below the lower end of the baffle plate.

1,418,422. BURNER. FREDERICK W. BALSTER, Wilmington, Del. Filed Oct. 23, 1920. Serial No. 418,873. 9 Claims. (Cl. 158—29.)



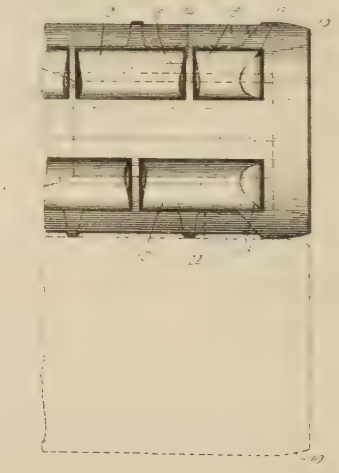
1. The combination in a burner structure, of a combustion chamber; a boiler located above the combustion chamber; a perforated plate extending under the combustion chamber and forming a burner; a central, longitudinal partition extending part-way through the length of the chamber under the burner; a bifurcated mixing tube, the arms of which extend on either side of the partition; a deflecting plate for preventing the direct flow of fuel from the mixing chamber to the burner openings above the tube; and a nozzle for the vaporized fuel located in the mixing tube.

1,418,423. LEAKPROOF LOWER OR STANDING VALVE. CHARLES H. BENCKENSTEIN, Vinton, La. Filed Apr. 4, 1921. Serial No. 458,306. 5 Claims. (Cl. 103—66.)



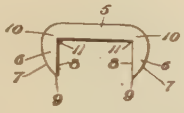
1. A lower or standing valve including a standard working barrel collar, a standard tapering seat provided in said collar, a tubular body member, a tapering soft metal washer associated therewith, and means for drawing the body member and washer downwardly whereby the latter is wedged into the space between the seat and the body member, said means engaging the under face of the seat.

1,418,424. SNAPPING ROLLS FOR HUSKERS AND SHREDDERS. BERT R. BENJAMIN, Oak Park, and GEORGE M. MERWIN, Berwyn, Ill., assignors to International Harvester Company, a Corporation of New Jersey. Filed Feb. 27, 1919. Serial No. 279,617. 6 Claims. (Cl. 130—5.)



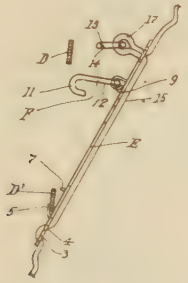
1. A snapping roll having a series of elongated longitudinally extending grooves formed in its periphery and extending substantially the entire length of the roll, the end walls of said grooves being beveled outwardly from the bottom, each of said grooves having a plurality of relatively narrow cross ribs or webs therein whereby said elongated grooves are subdivided into a plurality of comparatively short grooves, the outer edges of the ribs being continuous with the cylindrical surface of the rolls.

1,418,425. SOLE PROTECTOR. WILLIAM H. BETTS, St. Louis, Mo. Filed Jan. 14, 1921. Serial No. 437,196. 2 Claims. (Cl. 36—74.)



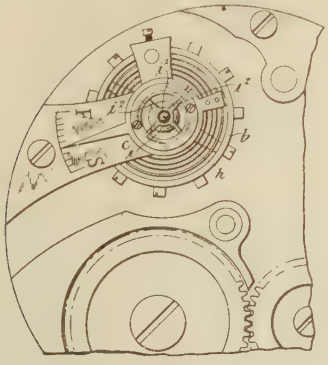
1. A sole protector comprising a driving head and wear plate having a prong formed integral with each end thereof, said prongs extending with sharp inside angles from the plate and having plane, smooth, straight inner faces and the outer faces of said prongs composed of composite curved surfaces, said prongs being of slightly less thickness at their corners than at a distance from the corners.

1,418,426. LUGGAGE CARRIER. JULIUS M. BORN, St. Paul, Minn. Filed Dec. 1, 1920. Serial No. 427,527. 5 Claims. (Cl. 224—29.)



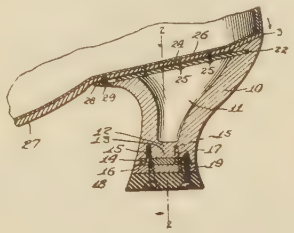
1. A device of the class described, comprising a long plate, means at one end of the plate for holding a flexible strap so that it may be brought to lie flatly longitudinally on one side of the plate, means adjacent said holding means for interlockingly engaging a transverse rail, and a hinged lever formed with a detachable strap holding member located a distance from the other end of said plate on the other side thereof and swingable toward said strap and loosely slidably engageable by means of said detachable member with said strap, the hinge of said lever being spaced from the flat surface of said plate.

1,418,427. WATCH, ETC. JOSEPH BRUN, Chaux de Fond, Switzerland, assignor of one-half to Charles F. Depollier, Brooklyn, N. Y. Filed Oct. 6, 1921. Serial No. 505,764. 5 Claims. (Cl. 58—140.)



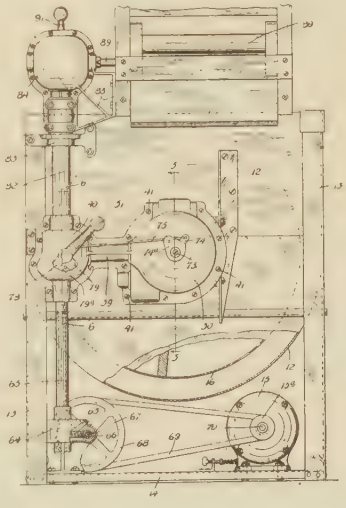
1. A jeweled bearing for watches, etc., comprising an annulus adapted to be secured to a frame plate, and a jewel-retainer having radiating arms engaged with the annulus, and adapted to support a cap jewel.

1,418,428. HEEL FOR SHOES. ANTHONY CARLOZZO, Yonkers, N. Y. Filed July 27, 1920. Serial No. 399,306. 2 Claims. (Cl. 36—41.)



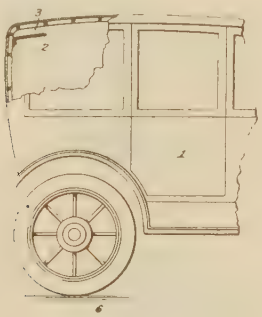
1. In a device of the character described the combination of a shoe sole provided with a convex surface, an anchor plate mounted upon said shoe sole and having in its entirety the form of a true plane, said anchor plate being provided with edges which, because of the flatness of the plate and the convexity of said convex surface, extend slightly away from said convex surface, a heel member having a massive portion provided with a concave surface mating said convex surface of said shoe sole and further provided with a groove having the form of a true plane and merging into the concavity of said concave surface, said anchor plate fitting into said groove in said heel member in order to hold said shoe sole and said heel member together, and means for preventing displacement of said shoe sole and said heel member relatively to each other.

1,418,429. DRIVING MECHANISM FOR WASHING MACHINES. FRANCIS W. CARPENTER, St. Paul, Minn., assignor to Fosston-Carpenter Company, St. Paul, Minn., a Corporation of Minnesota. Filed May 10, 1918. Serial No. 233,783. 19 Claims. (Cl. 74—50.)



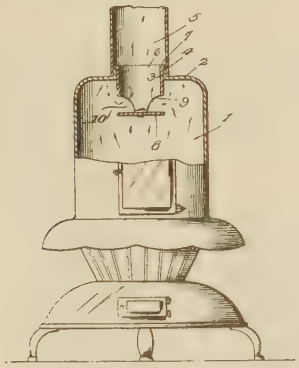
1. The combination with a rotary member adapted to be reversely driven, of a pair of reversely driven gears, a clutch member connected to rotate said rotary member and arranged for driving connection alternately with said two reversely driven gears, and means for alternately moving said clutch member into interlocking engagement with the said two gears, said means comprising a pawl and ratchet device driven with a timed action in respect to said reversely driven gears, said means further comprising a spring connection for cushioning the driving action of said pawl and ratchet device.

1,418,430. AIR DEFLECTOR FOR AUTOMOBILES. WARREN W. COLE, Portland, Me. Filed June 23, 1920. Serial No. 390,995. 4 Claims. (Cl. 296—74.)



2. An automobile body having an inwardly extending deflector secured to the rear end and spaced from the top.

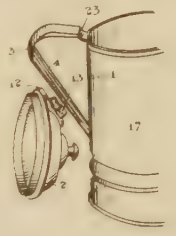
1,418,431. HEATING STOVE. LEVI DAMASKA, Cadillac, Mich. Filed Mar. 10, 1921. Serial No. 451,328. 1 Claim. (Cl. 126—83.)



A device of the class described comprising a thimble having a circumferential wall provided exteriorly at its upper end with a circumscribing flange projecting in an outward direction to seat upon the wall of the flue opening of a stove, the said wall at the lower end of the thimble being cut away at diametrically opposite sides to provide lateral passages and intervening depending supporting portions, the lower ends of the said portions being bent inwardly toward each other and lying wholly within the bounds of said circumferential wall of the thimble, and a baffle plate secured to the under side of the said inturned lower ends of the supporting portions with its margin substantially flush with the outer surfaces of said portions and lying wholly within the bounds of said wall whereby the thimble may be bodily inserted in a downward direction into the flue opening of a stove and supported by said flange and may be bodily removed by upward displacement.

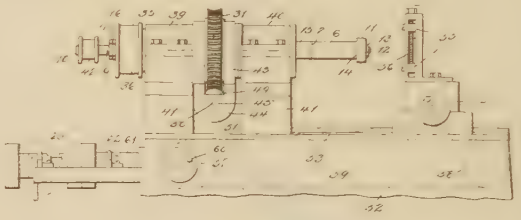
1,418,432. CULINARY VESSEL. THOMAS CHARLES DAVIDSON, Montreal, Quebec, Canada. Filed Oct. 14, 1921. Serial No. 507,740. 1 Claim. (Cl. 53—3.)

In a culinary vessel, a pot having a handle tapering from its upper end downwardly, a lid for said pot, a hinge member permanently secured to said lid and rigid therewith, and a hinge member embracing said handle, and having an opening for the passing of the narrow portion of



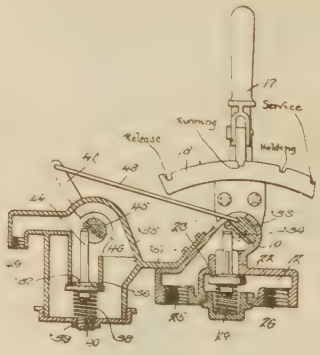
said handle in removing it from its locked position on the upper portion of the handle in the closed position of the lid.

1,418,433. GRINDER. OTTO H. FEUCHT, St. Louis, Mo. Filed Oct. 27, 1921. Serial No. 510,945. 3 Claims. (Cl. 51—261.)



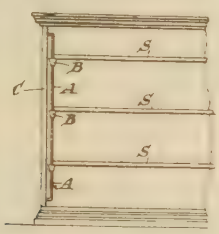
1. In combination with a spindle on one end of which is positioned a stone, a rectangular casting secured to said spindle, wedges in sliding engagement with said rectangular casting and means of moving said wedges longitudinally relative said rectangular casting.

1,418,434. ATTACHMENT FOR STRAIGHT-AIR BRAKE VALVES. JOHN W. FINCH, El Reno, and WILLIAM A. TALLEY, Shawnee, Okla. Filed June 27, 1921. Serial No. 480,655. 7 Claims. (Cl. 303—8.)



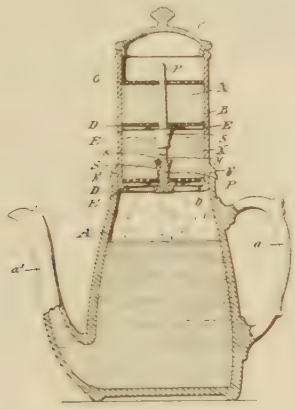
1. An air brake system including a straight-air brake valve and a triple valve, the straight-air brake valve having an oscillatable handle, of an auxiliary valve casing having a valve seat, an inlet port at one end, an exhaust port at the other, the inlet port being connected to the exhaust port of the triple valve, a valve in said casing resiliently held against the seat and cutting off communication between the inlet port and the exhaust port, and means causing the opening of the auxiliary valve to establish communication between the exhaust port and the inlet port thereof when the straight-air brake valve is operated to establish communication between the brake cylinders and the exhaust port of the straight-air brake valve.

1,418,435. DEVICE FOR SUPPORTING VARIOUS ARTICLES. EDWIN S. GARDINER, New Orleans, La. Filed Sept. 29, 1921. Serial No. 504,204. 3 Claims. (Cl. 211—27.)



1. A supporting device comprising a rod cylindrical in shape except for a longitudinal cut away portion on one side, one or more notches in the curved portion communicating with the cut away portion, and a slide closely engaging the curved portion of the rod and having a tooth which permits free longitudinal movement of the slide when adjacent the cut away portion, but which fits closely in a notch when the slide is given a movement of rotation.

1,418,436. DRIP COFFEEPOT. EDWIN S. GARDINER, New Orleans, La. Filed Sept. 29, 1921. Serial No. 504,203. 7 Claims. (Cl. 53—3.)

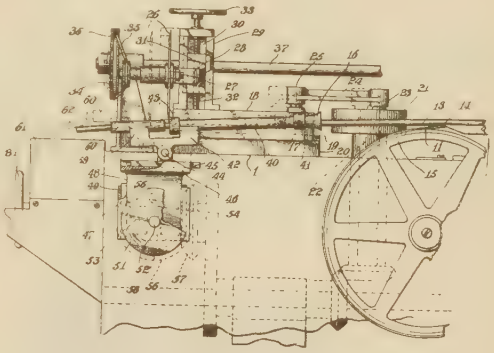


1. The combination with a coffee pot, of a coffee-holder comprising a receptacle for coffee, a supporting rod having a flat side extending longitudinally thereof and formed with a notch near its edge, a perforated drip-plate and a slide for holding the drip-plate in place on the rod which is provided with a tooth adapted to slide freely on the flat side of the rod and to engage the notch on the rod when given a partial turn.

1,418,437. CUT-OFF MECHANISM. WILLIAM F. GRUPE, Hudson Heights, N. J., assignor to Endless Belt Corporation, Inc., a Corporation of New York. Filed Mar. 12, 1920. Serial No. 365,246. 10 Claims. (Cl. 131—43.)

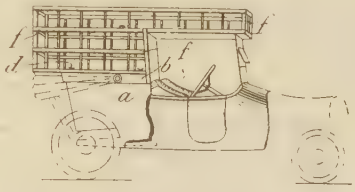
1. The combination of a cigarette making machine, of mechanism for forming a cigarette rod having the lap of the cigarette paper located to travel along a predetermined path, severing means located on the side of the formed cigarette rod and adjacent the lap thereof, and means for actuating said severing means and means for moving the formed cigarette rod toward the path of travel of said severing means.

6. The combination with a cigarette making machine provided with rod forming mechanism, of severing means, means for reciprocating said severing means in the direction of progress of the cigarette rod, means for reciprocating the cigarette rod toward and away from said severing means and means for synchronizing said rod reciprocating means with said rod forming mechanism, said rod reciprocating means comprising a tube supporting the cigarette rod, a horizontally reciprocating element pivotally connected to said tube, a vertically reciprocating element supporting said horizontally reciprocating element, a cam controlling said vertically reciprocating element, and gearing connecting said cam in synchronous operation with said rod forming mechanism.



10. The combination with a cigarette making machine provided with a support for a reel of paper strip, printing means and means for severing the formed cigarettes, an arm constructed to frictionally engage the paper strip, means for yieldingly mounting said arm between said printing means and said severing means and means for regulating the location of severing relative to the printed matter on the paper strip comprising an element for adjusting the position of said arm relative to the path of travel of the paper strip.

1,418,438. LOAD-CARRYING ATTACHMENT FOR MOTOR CARS. JOHN GUILLE, Guernsey, Channel Islands. Filed May 24, 1921. Serial No. 472,062. 3 Claims. (Cl. 296—37.)

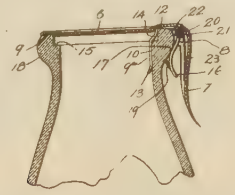


1. A goods carrying device comprising a structure shaped to conform substantially to the interior of the body of a touring car and adapted to be temporarily inserted in said body, and a skeleton superstructure rearwardly overhanging the said structure.

1,418,439. MILK-BOTTLE CLOSURE. FREDERICK HACHMANN, St. Louis, Mo., assignor to William H. Gregg, St. Louis, Mo. Filed Feb. 14, 1921. Serial No. 444,912. 1 Claim. (Cl. 215—71.)

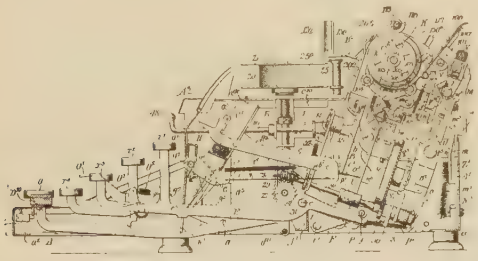
A bottle closure comprising a lid and handle portion stamped from a single piece of metal, perforated ears formed integral with the handle portion, a clamping member pivotally connected to the handle portion, said clamping member being provided with two depending spring arms of uniform and equal widths and having their lower ends curved in opposite directions, the outer one of which is provided with an inwardly and upwardly projecting tooth and the inner one with an offset portion, which are adapted to clamp the bottle neck at opposite points on the inside and outside surfaces thereof and the said tooth

adapted to engage the bottle neck to prevent the closure from being accidentally displaced, and a spring mounted



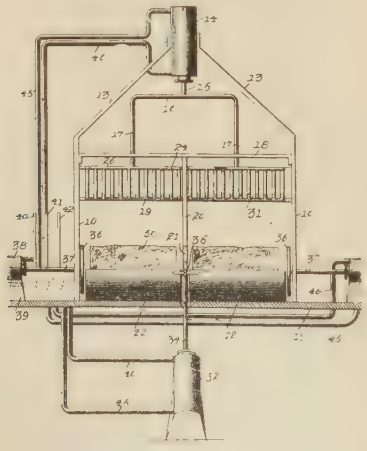
on said clamping member for holding the lid member closed.

1,418,440. TYPEWRITING MACHINE. EDWARD BERNARD HESS and LEWIS CARY MYERS, Brooklyn, N. Y., assignors to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 13, 1921. Serial No. 436,924. 7 Claims. (Cl. 197—22.)



1. A typewriting machine comprising a sheet metal frame, an assembly unit supporting the key levers and type bar connections in substantially horizontal position and attached to said frame, a cast type bar segment attached to the frame in an inclined position, and a sheet metal frame attached to the main frame and supporting the carriage, escapement mechanism and other instrumentalities in an inclined position.

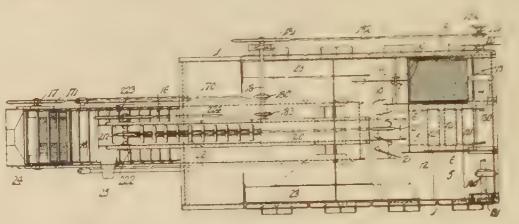
1,418,441. ROUND-BALE COTTON PRESS. HARLEY ALEXANDER WATT HOWCOTT, New Orleans, La. Filed June 25, 1920. Serial No. 391,566. 13 Claims. (Cl. 100—19.)



1. A press for shaping bales of cotton or the like from rectangular shape or square cross section into cylindrical shape or round cross section, comprising opposed semi-cylindrical presser sections, and means for actuating the same, one section being slidable and the other pivoted to move to pressing or dumping positions.

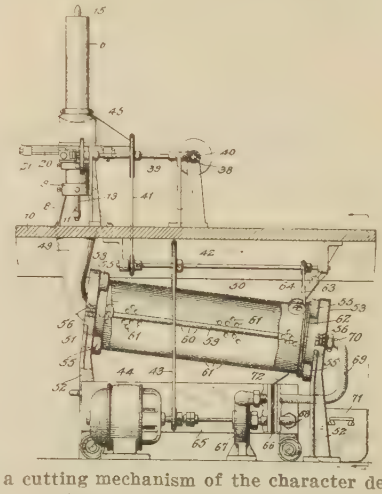
12. A press for shaping bales of cotton or the like, from rectangular or square cross section into cylindrical shape or round cross section, comprising a vertical frame having side portions, a power cylinder supported between said side portions and the top of the frame, a cross member on the frame, a plunger in the cylinder having a crosshead and shank portions operating through said cross member, a hinged pair of lower sections adapted for movement to dumping and receiving positions, an inclined power cylinder having articulated connection with said lower sections for tilting the same, power operated plungers operable through the sides of said frame, a vertical central member in the frame against which the inner ends of the bales in the sections are adapted to be compressed, said section being provided with spaced groove forming ribs at the inside, anti-friction means arranged on said ribs to permit longitudinal compression of the bales, power cylinders controlling said plungers, conduits with a source of motive fluid, and manually operable valves inserted in said conduits for controlling the same.

1,418,442. APPARATUS FOR WASHING COAL OR THE LIKE AND FOR SEPARATING IT FROM ITS IMPURITIES. HENRY PATRICK HOYLE, Durham, England. Filed Aug. 29, 1921. Serial No. 496,558. 8 Claims. (Cl. 83—79.)



1. Apparatus for washing coal and like material, comprising a tank divided into two parts, an inclined mesh plate pivoted at one end and attached to a balance weight at the other, a reciprocating paddle in the tank and located directly beneath the mesh plate, valves in the paddle adapted to close during the forward stroke and open during the reverse stroke, means for reciprocating the paddle, means for feeding material to the high end of the mesh plate, a weir in the tank over which the coal passes, means for removing material from one part of the tank, and means for removing material from the other part.

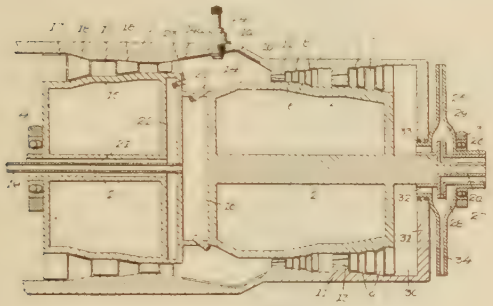
1,418,443. FRUIT AND VEGETABLE CUTTING MACHINE. EUGENE ROBERT JAGENBURG, New York, N. Y., assignor to Crown Fruit & Extract Co. Inc., New York, N. Y., a Corporation of New York. Filed Aug. 9, 1921. Serial No. 490,866. 12 Claims. (Cl. 146—7.)



1. In a cutting mechanism of the character described, a cylinder comprising a fixed and a removable portion con-

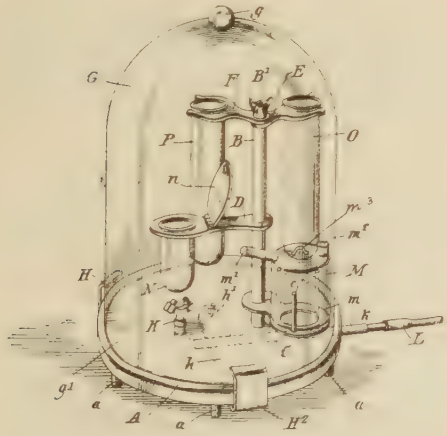
nected together by a lapped joint, two series of reciprocating cutting knives extending transversely of the cylinder at said joint and disposed in vertical intersecting planes, and means for operating said knives.

1,418,444. INTERNAL-COMBUSTION TURBINE. LYMAN C. JOSEPHS, Jr., Flushing, N. Y. Filed Sept. 25, 1919. Serial No. 326,407. 7 Claims. (Cl. 60—42.)



1. In an internal combustion turbine, the combination with sources of fuel and a vaporizable non combustible medium, and a combustion chamber, of a rotor having a plurality of nozzles for delivering the fuel and the non-combustible medium to said chamber by centrifugal force.

1,418,445. DENTAL APPLIANCE. CHARLES EDMUND KELLS, New Orleans, La. Filed Mar. 17, 1921. Serial No. 453,173. 4 Claims. (Cl. 126—260.)

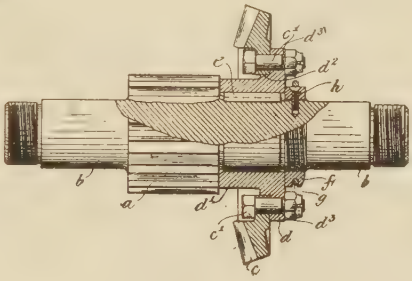


1. A dental apparatus, comprising a base, a heater supported by the base, a post on the base and extending vertically therefrom, brackets carried by the post and projecting laterally therefrom, a cover having a laterally projecting rim at its lower end, and means for detachably locking the cover to the base, comprising hooks fixed to the base and which engage the rim of the cover and a hook carrying arm on the under side of the base and pivoted eccentrically thereon, being adapted to engage the rim of the cover or to become disengaged therefrom, whereby when said arm engages the cover, the base with parts carried thereby may be lifted with the cover.

1,418,446. HEAT-TREATING FURNACE AND METHOD. CHARLES J. KIRK, New Castle, Pa. Filed Feb. 10, 1920. Serial No. 357,540. 11 Claims. (Cl. 25—142.)

1. A method of firing earthenware that comprises subjecting the ware, while traversing a firing chamber, to heat from a plurality of separate and independently regulable heat sources creating well defined zones of heat.

1,418,447. GEARING. AUGUST H. LEIPERT, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 30, 1919. Serial No. 348,448. 1 Claim. (Cl. 74—7.)

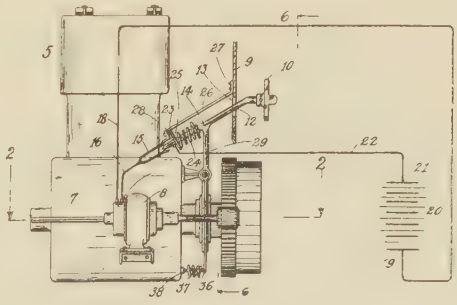


In combination with a shaft, a pinion integral therewith, a flanged hub in juxtaposition to the pinion supported on the shaft and keyed thereto, said flange being formed with a shoulder on its inner face, and a ring gear having a greater internal diameter than the diameter of the pinion and a lesser internal diameter than the diameter of the flange and resting on said shoulder and bolted to said flange.

1,418,448. MANUFACTURE OF BUTYRIC ALDEHYDE. DAVID ALLISTON LEGG, London, England, assignor to Matthew Atkinson Adam, London, England. Filed Nov. 22, 1921. Serial No. 517,072. 3 Claims. (Cl. 260—138.)

1. A method for the production of butyric aldehyde which consists in the dehydrogenation of normal primary butyl alcohol by means of a fused cupric oxide catalyst.

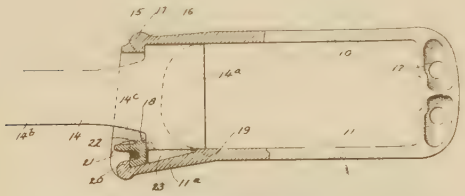
1,418,449. STARTER FOR AUTOMOBILE ENGINES. HERBERT L. MEEDER, Denver, Colo., assignor of three-eighths to Lewis S. Hall and two-eighths to John Inglis, both of Denver, Colo. Filed Apr. 12, 1919. Serial No. 289,676. 1 Claim. (Cl. 290—38.)



A starting device for an internal combustion engine comprising, in combination, an engine shaft, a flywheel

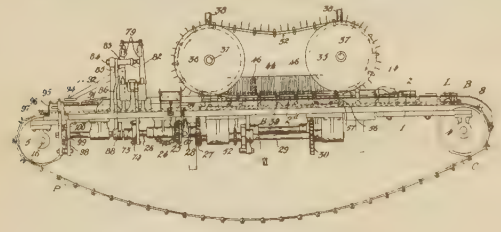
on said shaft, a tapering gripping surface on one side of said flywheel, a clutch member mounted concentric with said shaft and having a tapering surface for engaging with the tapering surface of said flywheel, gear teeth on the external periphery of said clutch member, a motor mounted on the engine frame, a pinion rotated by said motor in engagement with the gear on said clutch member, means for closing the circuit to said motor and for moving the clutch member into engagement with the gripping surface of said flywheel, said means comprising a member pivoted to the engine frame and engaging with said clutch member.

1,418,450. DRAWBAR YOKE. GEORGE C. MURRAY, Chicago, Ill. Filed Mar. 18, 1918. Serial No. 223,086. 13 Claims. (Cl. 213—42.)



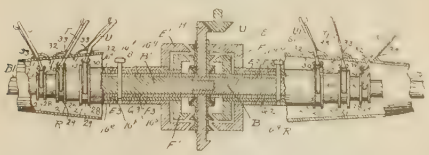
1. The combination in a drawn-bar yoke, of a hooded forward end adapted to receive a shouldered draw-bar butt, means carried by said yoke for engaging one shoulder of said butt, and a removable gib insertable from the forward end of said yoke for engaging the other shoulder of said butt, the lower wall of said yoke being adapted to engage and directly support said butt when the latter is in its normal forward position.

1,418,451. MACHINE FOR FILLING RECTANGULAR METAL BOXES WITH VESTAS. ANDREW FRANCIS NEY, East Kew, Victoria, Australia. Filed Aug. 8, 1921. Serial No. 490,776. 29 Claims. (Cl. 226—8.)



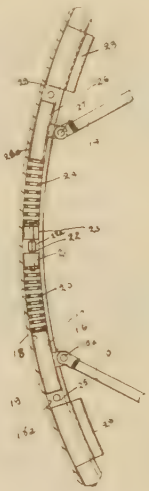
1. In a machine for filling rectangular metal boxes with vestas, a channel guideway, an endless intermittently operated box carrier, a bevelled ramp at one side of said guideway, and a laterally and upwardly inclined arm on said side extending across the carrier to raise the box lid.

1,418,452. DIFFERENTIAL FOR VEHICLES. JACOB FRANKLIN NISEWANGER, Tranquillity, Calif. Filed Apr. 17, 1919. Serial No. 290,793. 2 Claims. (Cl. 74—99.)



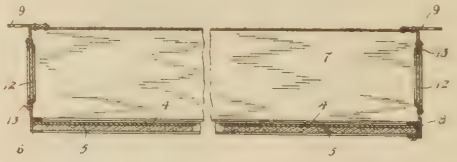
1. In a differential, the combination of an axle consisting of a plurality of shafts having a common axis, said axle being divided into two parts which are spaced apart, a master gear adapted to rotate independent of said axle and concentric therewith, a plurality of pinion shafts mounted radially in the master gear and adapted to rotate with the master gear, bushings adapted to rotate on the pinion shafts, and a plurality of uniform-size pinions rigidly attached to the bushings, a driven gear attached to each part of each shaft, some of said driven gears being formed cup shaped so that the next smaller gear can be slid within the cup beyond the plane of the teeth of the next larger gear, each of said driven gears being adapted to mesh with one of the pinions on each of the bushings, together with means for selectively meshing one of the driven gears on each of the two parts of the axle with the intermediate pinions, and for locking the shafts in such relation.

1,418,453. VEHICLE BUMPER. JOSEPH J. O'BRIEN, Springfield, Mass. Filed Sept. 11, 1920. Serial No. 409,702. 7 Claims. (Cl. 293—55.)



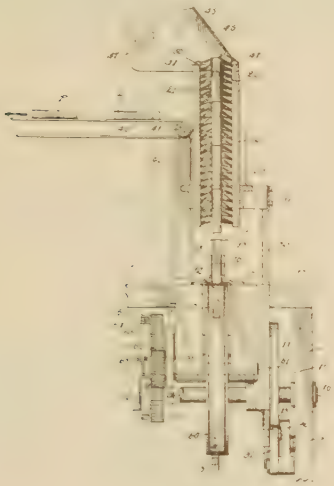
5. A bumper consisting of a bar, said bar providing a channel therein, slides mounted to move in said channel and having portions extending laterally of the bar, a spring disposed in said channel between the slides, and arms pivotally connected with the latteral portions of said slides and adapted to be pivotally connected with the vehicle frame in diagonal relation thereto.

1,418,454. ILLUMINATED LICENSE-NUMBER PLATE AND TAIL LIGHT. LESTER OHNSTEIN, Minneapolis, Minn. Filed Mar. 25, 1920. Serial No. 368,653. 1 Claim. (Cl. 40—132.)



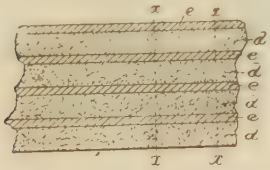
The combination with a substantially rectangular housing having an open front and having openings at each end, an electric lamp socket, a lamp therein disposed in said housing and depending from the upper side thereof, substantially at the longitudinal center, a license number plate having open characters permitting the passage of light and a colored glass plate placed adjacent the said license plate, the two plates being held together and extending over the exposed face of the housing, the said housing having glass plates of different color than the first mentioned plate secured in the openings in the end thereof to serve as side lights, and attaching lugs extending at each end of the housing at the rear thereof

1,418,455. LABELING MECHANISM. JOHN A. OLSON, Bergenfield, N. J., and JOHN E. WILLIAMSON, Yonkers, N. Y., assignors, by mesne assignments, to Stokes & Smith Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 23, 1920. Serial No. 425,990. 25 Claims. (Cl. 216—9.)



2. In mechanism for applying adhesively coated labels and the like, a combined label applying and article feeding instrumentality, arranged to provide an article passage, comprising yieldable label applying and article gripping elements in the passage, and means for moving the instrumentality to and fro to apply label portions to successive articles and advance the articles successively through said passage.

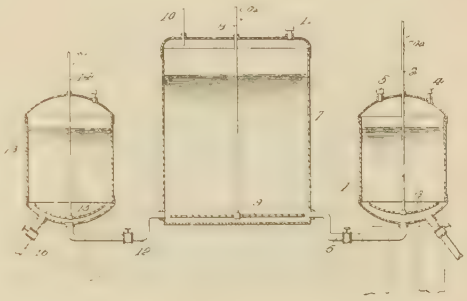
1,418,456. ORNAMENTAL ROOFING. FREDERICK C. OVERBURY, Hillsdale, N. J., assignor to The Flintkote Company, Boston, Mass., a Corporation of Massachusetts. Filed July 24, 1920. Serial No. 398,681. 1 Claim. (Cl. 91—67.9.)



A roofing material comprising a fibrous waterproof foundation, having on its face spaced parallel zones of asphalt, surfaced with crushed mineral, and intervening zones of a plastic colored waterproof compound, which contrasts in color with the mineral-surfaced zones.

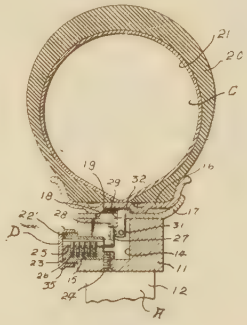
1,418,457. PROCESSES FOR THE PRESERVATION IN STORAGE OF SIRUPS AND MOLASSES. WILLIAM L. OWEN, New Orleans, La., assignor, by mesne assignments, to Penick & Ford, Ltd., Incorporated, New Orleans, La., a Corporation of Delaware. Filed July 31, 1919. Serial No. 314,563. 3 Claims. (Cl. 99—8.).

1. The process of preserving molasses or the like in storage consisting in subjecting it to carbon dioxide gas under pressure to substantially displace the entrained and environmental air and finally storing the molasses under



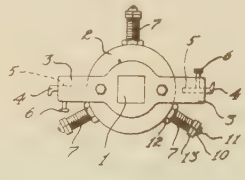
pressure by subjecting it to a maintained pressure of carbon dioxide gas of at least forty-five pounds.

1,418,458. MEANS FOR LOCKING DEMOUNTABLE RIMS TO WHEELS. HARRY B. PATTEN, Westfield, Ind. Filed Dec. 7, 1920. Serial No. 428,949. 2 Claims. (Cl. 301—29.)



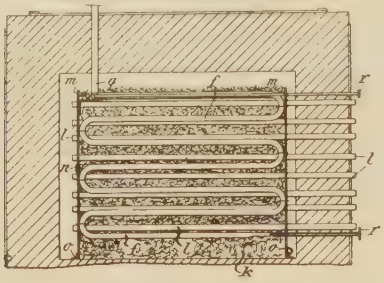
1. In combination, a wheel including a felly having a chamber formed therein, a rim removably arranged on said felly having a struck out portion formed therein in alignment with said chamber, a lock fitted in said chamber including a bolt mounted for swinging movement in said chamber, a head formed on said bolt adapted to engage in the struck out portion made in the rim, and a cam carried by the lock structure arranged to engage the bolt.

1,418,459. ROTARY CUTTING APPARATUS FOR METAL WORK. ANTONIO TORRES PERINAN, South Bethlehem, Pa. Filed Apr. 11, 1921. Serial No. 460,275. 2 Claims. (Cl. 77—58.)



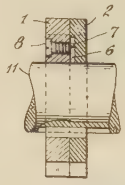
1. A rotary metal cutting apparatus for interior work comprising a body having arms, cutters carried by said arms, and struts adapted for interposition between the body and a wall of the piece of work in which the body is disposed; the said struts respectively including a threaded bolt with a socket at its outer end, a ball in said socket and adapted to bear against said wall, and a nut mounted on the bolt and bearing inwardly against the body.

1,418,460. HEAT-STORING AND WATER-EVAPORATING PLANT. HERMANN PFENNINGER, Wadenswil, Switzerland. Filed Mar. 21, 1919. Serial No. 284,017. 3 Claims. (Cl. 219—39.)



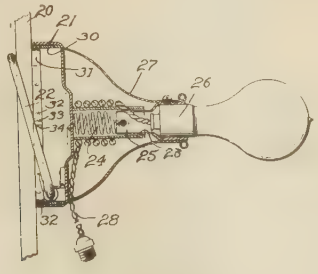
1. An electric heater comprising in combination a chamber, a plurality of tube-like horizontal evaporating elements located therein and arranged in groups in vertical planes parallel one to another, electrical heating bodies also located in said chamber and arranged in groups in vertical planes which are parallel to the planes in which said evaporating elements are disposed, the groups of evaporating elements alternating with the groups of the electrical heating bodies, heat-storing material filled in said chamber between the different elements and the heating bodies and in close contact thereto.

1,418,461. GEARING. WINSLOW S. PIERCE, Jr., Bayville, N. Y. Filed Oct. 27, 1921. Serial No. 510,853. 1 Claim. (Cl. 74—28.)



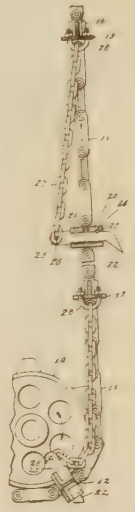
A spur gear consisting of two annular segments, one segment having means provided thereon whereby it may be fixed to a shaft, the other segment being free to rotate through a limited angle on said shaft, positive means for rotating the latter segment with respect to the former consisting of a machine screw extending through the former segment, said screw having an eccentric lug coacting with a slot in said latter segment, and means for fixing the two segments together at any predetermined relative position.

1,418,462. ELECTRIC-CORD RETAINER. GEORGE POTSTADA, Oakland, Calif. Filed Mar. 31, 1920. Serial No. 370,317. 1 Claim. (Cl. 206—1.)



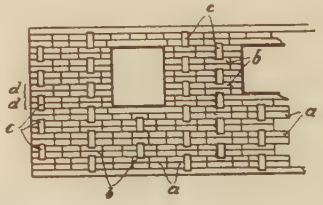
An electric cord receptacle comprising a base, a clamp for securing the base to any suitable object, a tubular post carried by the base, a spring within said tubular post, and a cover connected with said spring, said cover being adapted to conceal an electric cord when wound upon the tubular member under the cover.

1,418,463. CUTTER FOR SHALE PLANERS. JOSEPH M. POWELL, Brooklyn, Ind., assignor to Eagle Iron Works, Des Moines, Iowa, a Corporation of Iowa. Filed June 22, 1921. Serial No. 479,482. 9 Claims. (Cl. 262—33.)



1. A cutter-chain for shale planers, comprising two parallel chains, cross-bars connecting such chains, cutters mounted in some of said cross-bars, the cutter-carrying cross-bars being provided with arms projecting therefrom on the opposite side of the plane of the chains from said cutters, and tension members connecting said arms with cross-bars in the rear of said cutter-carrying cross-bars.

1,418,464. WALL OF BLOCKS OF WOOD AND SIMILAR MATERIAL. KURT PRAETORIUS, Dresden, Germany. Filed Nov. 16, 1921. Serial No. 515,613. 1 Claim. (Cl. 20—4.)

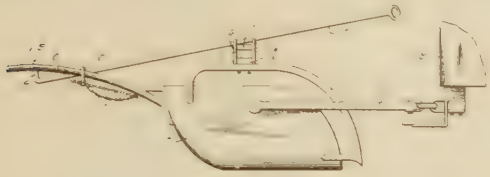


In a wall of blocks of wood and similar material, in combination, horizontal ranges of said blocks jointed in bondlike fashion and having shallow recesses in the horizontal sides of some of said blocks, and vertical rows of blocks inserted in said horizontal ranges at uniform distances from each other in such a way that each vertical block extends through one horizontal range and engages in said shallow recesses of the horizontal block of the next ranges above and below said horizontal range, the blocks of two adjacent vertical rows being so located that one block of one row lies always opposite to the space between the blocks of the adjacent row, substantially as and for the purpose set forth.

1,418,465. ROAD SCRAPER. OLIVER O. PRICE, Orosi, Calif. Filed Jan. 26, 1921. Serial No. 440,004. 5 Claims. (Cl. 37—40.)

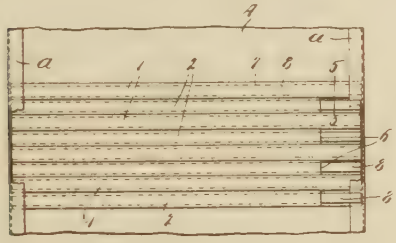
1. The combination with a road scoop and draft means therefor, of a bar extending transversely across the scoop

at the upper edge thereof, a dumping and resetting lever resting on the bar and having one end operatively con-

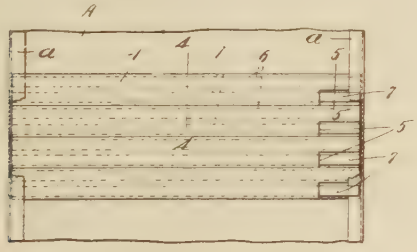


nected with the scoop and its opposite end disposed within reach of the operator of the draft means.

1,418,466. INDEX. JAMES H. RAND, North Tonawanda, N. Y. Filed Oct. 3, 1919. Serial No. 328,124. 14 Claims. (Cl. 40—63.)

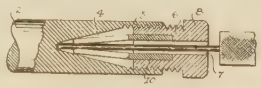


7. A holder for index slips comprising a pair of relatively long and narrow, parallel, closed-faced sheaths of transparent resilient material, arranged side by side and united to form a pair of compartments adapted to hold separate index slips, the end of the front face of one sheath being cut away to admit of the insertion or removal of an index slip.

1,418,467. INDEX. JAMES H. RAND, North Tonawanda, N. Y. Filed Oct. 3, 1919. Serial No. 328,125. 4 Claims. (Cl. 40—63.)

4. A holder for index slips formed of an integral piece of transparent, resilient, sheet material, having its opposite margins folded over and inwardly upon the middle section to form a pair of relatively long and narrow parallel compartments arranged side by side in the same plane, adapted to hold separate index slips, a part of the middle section opposite one of said folded margins, near its end, being cut away to form an entrance opening for an index slip.

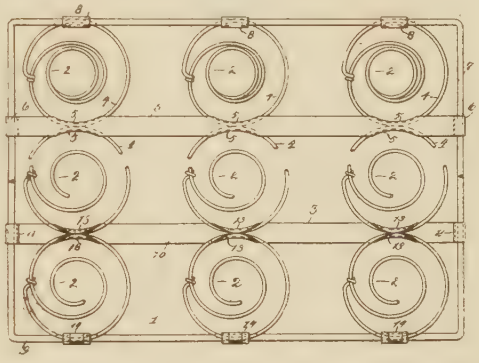
1,418,468. ELECTRICAL CONNECTOR. JOHN RAUS, Cleveland, Ohio, assignor to The Ohio Instrument Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 22, 1919. Serial No. 319,056. 5 Claims. (Cl. 173—324.)

5. An electric conductor comprising a receiving member having a tapered bore terminating in a seat; a gripping member seated in said bore; said gripping member comprising a bushing having a bore coaxial with the tapered bore; resilient gripping fingers projecting from the gripping member and arranged about the bore therethrough so spaced as to be normally out of contact with a wire passed through said bore; and means for forcing the ends of said



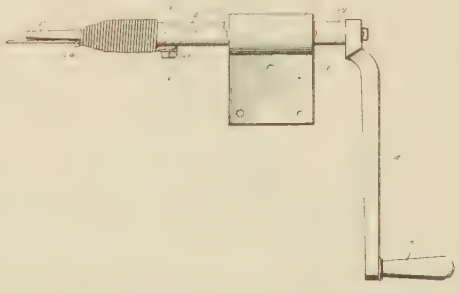
gripping fingers inwardly so as to cause them to contact with the wire at an angle to the axis thereof and to force the end of the wire in said seat.

1,418,469. SPRING-SEAT CONSTRUCTION. HERMAN O. REIDENBACH, Detroit, Mich., assignor to L. A. Young Industries, Inc., Detroit, Mich., a Corporation of Michigan. Filed June 13, 1921. Serial No. 477,106. 3 Claims. (Cl. 155—181.)



1. A spring cushion structure including a border frame, cross strips of pliant metal secured at their ends to said border frame, and coiled springs arranged in rows with the end coils of springs of adjacent rows disposed side by side and overlapping said cross strips, the opposed edges of said cross strips within the coils being folded inwardly upon and conformed to the coils, the outer rows of springs being secured to the members of the frame parallel to said strips.

1,418,470. MACHINE FOR BENDING WIRE. STEPHEN R. REYNOLDS, Enid, Mont. Filed Feb. 21, 1921. Serial No. 446,744. 4 Claims. (Cl. 140—71.)

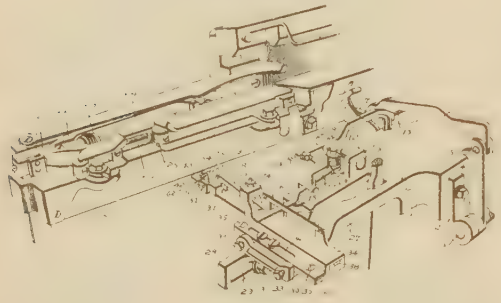


1. A machine of the character described, comprising a support, a spindle carried by the support, said spindle having a longitudinal groove, a looping element carried by the spindle and arranged near the groove, and means to turn the spindle.

1,418,471. FEELER MECHANISM FOR LOOMS. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Dec. 2, 1920. Serial No. 427,675. 14 Claims. (Cl. 139—85.)

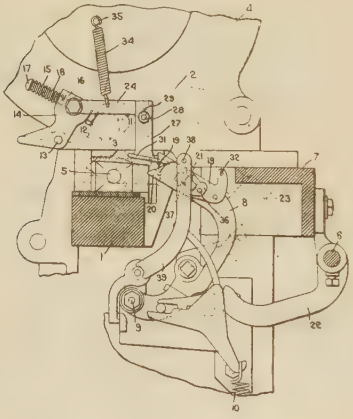
1. A feeler mechanism for looms, comprising in combination, an impinging feeler and a penetrating feeler, means

which normally holds the penetrating feeler from engagement with the filling on a detecting beat, a feeler projector for moving the penetrating feeler into the filling engaging position, a bunter for operating the projector and adapted to be actuated only upon the filling reaching



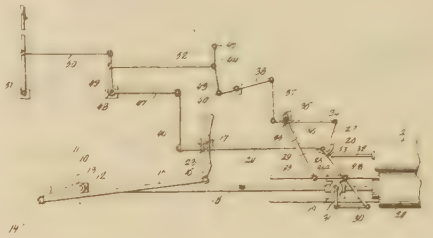
a predetermined degree of depletion prior to substantial exhaustion, an actuator which is moved into operative position by the projector when the penetrating feeler is moved frontwardly relative to the impinging feeler on a detecting beat, and means controlled by the actuator for effecting replenishment of filling.

1,418,472. FILLING CLAMPING AND PARTING MECHANISM FOR LOOMS. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Sept. 23, 1921. Serial No. 502,663. 3 Claims. (Cl. 139—85.)



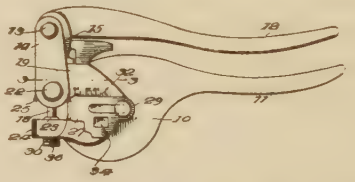
1. An automatic filling replenishing loom comprising a lay, a replenishing magazine for the fresh filling carriers, means for transferring a fresh filling carrier from the magazine to the lay, a filling clamping and parting device movable into position to receive the running filling when the lay is in position for transfer, a movable filling carrier support moved by the filling carrier upon its discharge from the magazine to the lay, a spring connected at one end to the loom frame and forming at the other end a fulcrum support, an actuator lever pivoted at one end on the movable filling carrier support, fulcrumed on the said fulcrum support, and engaging at the other end the filling clamping and parting device when in rearward position whereby the said actuator lever is yieldable upon the occurrence of an abnormal resistance but acts under normal conditions to actuate the filling clamping and parting device upon the movement of the filling carrier support to effect the clamping and parting of the filling extending from the filling carrier to be abandoned.

1,418,473. VALVE GEAR. THOMAS W. ROSE, Savannah, Ga. Filed Aug. 14, 1917. Serial No. 186,152. 5 Claims. (Cl. 121—163.)



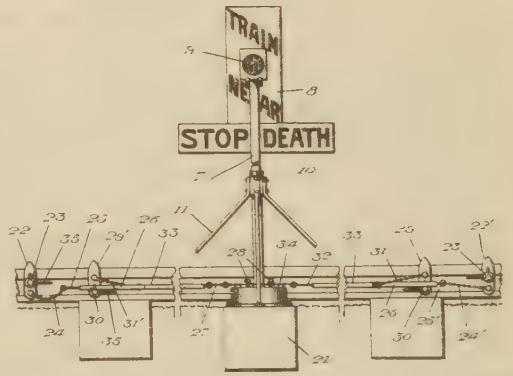
1. The combination, in a locomotive valve gear of the radial type, of an eccentric crank, an eccentric rod connected thereto, an arcuate link connected to the eccentric rod, a radius rod adjustably held in the link, a floating lever, a valve and valve rod connected to the floating lever, an eccentric connection between the floating lever and radius rod, a reversing lever and means connecting the same to the radius rod, and means operable by movement of said reversing lever for actuating the eccentric whereby to vary the lead of the valve, when the gearing is moved to intermediate positions.

1,418,474. PUNCH. HEYMAN ROSENBERG, New York, N. Y. Filed Nov. 21, 1919. Serial No. 339,590. 4 Claims. (Cl. 164—120.)



1. The combination, with a punch having the usual spaced-apart jaws, punch point operating between the jaws, and operating lever therefor extending rearwardly during operation, of an index point projecting forwardly from one of the jaws in position for being observed by the operator during a punching operation for determining the location of the axis of the punch point when the punch is applied to the work.

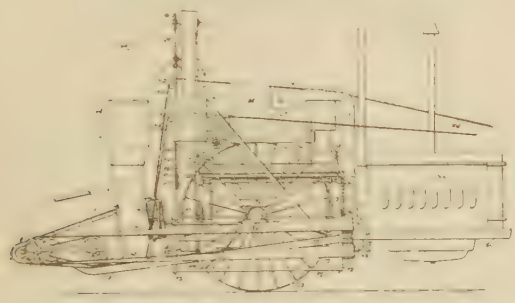
1,418,475. RAILROAD-CROSSING SIGNAL MECHANISM. DEMUS R. RUPERT, Huntington, Ind. Filed May 25, 1921. Serial No. 472,376. 7 Claims. (Cl. 246—293.)



1. A signal mechanism including a base, a turntable mounted thereon, a staff carried by the turntable and having signalling means thereon, said turntable and base

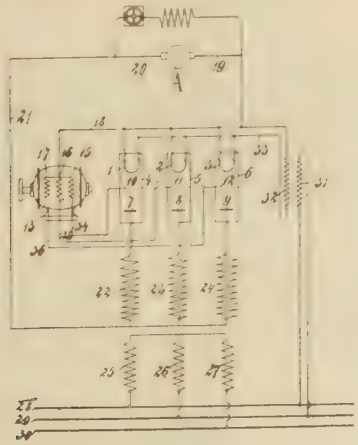
having portions for raising the turntable and staff when moved from one position to another and for the gravitation thereof in either position, and means for turning said turntable to such positions.

1,418,476. STANDING-GRAIN THRASHING MECHANISM. GEORGE SCHAEFER, Russell, Kans. Filed Apr. 21, 1920. Serial No. 379,457. 31 Claims. (Cl. 56—19.)



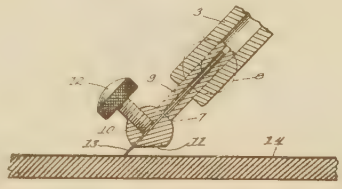
1. In standing grain thrashers, a wheeled supporting frame, a grain gathering mechanism mounted on the frame and including grain severing mechanism and a hood having a restricted entrance below which said severing mechanism is located and a suction blower for drawing the grain through the restricted entrance of said hood and delivering the grain to the thrashing machine proper, a thrashing machine proper including a thrashing cylinder case mounted on said frame, a duct between said suction blower and said thrashing cylinder case, and means for operating the aforesaid mechanism.

1,418,477. TRANSFORMATION OF DIRECT CURRENT. MORITZ SCHENKEL, Charlottenburg, near Berlin, Germany, assignor to Siemens Schuckertwerke G. m. b. H., Berlin, Germany, a Corporation of Germany. Filed Mar. 29, 1917. Serial No. 158,467. Renewed Feb. 9, 1921. Serial No. 443,727. 5 Claims. (Cl. 175—363.)



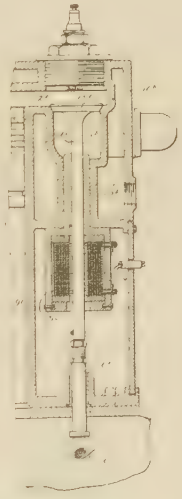
5. A system of transformation of direct current into multi-phase alternating current, comprising a source of direct current, a plurality of vacuum apparatus, a plurality of primary and secondary transformer windings, a cathode within each vacuum apparatus connected to said source of direct current, an anode within each vacuum apparatus connected to one end of one of said primary transformer windings, a connection from said source of direct current to the other ends of said windings, an auxiliary electrode arranged within each vacuum apparatus between said cathodes and said anodes and an auxiliary multi-phase alternating current generator having each phase connected to a different auxiliary electrode.

1,418,478. PHONOGRAPH NEEDLE AND HOLDER STRUCTURE. MALVERN W. SEVERANCE, Cleveland, Ohio. Filed Feb. 24, 1921. Serial No. 447,626. 1 Claim. (Cl. 274—37.)



A phonograph needle and holder structure, comprising a unitary holder member provided with a substantially cylindrical shank having at one end an enlarged head, the shank of said holder member being adapted for slidable engagement in the ordinary needle socket of a sound box, said holder member being also provided with a longitudinal needle opening, the diameter thereof throughout the head being reduced from that through the shank to approximately the width of a phonograph record groove, the head of said holder member having a flattened portion extending back from the forward end of the needle opening and adapted to lie approximately parallel to the record when the needle is in operative position, a phonograph needle of uniform cross section in said opening, and a set screw in said head for adjustably securing said needle in said opening.

1,418,479. POPPET-VALVE MECHANISM FOR INTERNAL-COMBUSTION ENGINES. FRANK D. SHEPHERD, Aurora, Ill. Filed Jan. 30, 1920. Serial No. 355,033. 12 Claims. (Cl. 123—90.)

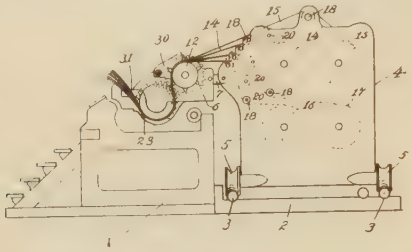


1. The combination in an internal combustion engine, of a valve seat and a movable valve coacting therewith, engine operated mechanical means for opening the valve and positively limiting the speed of its closing movement, and electrical means operating on the valve to move it to its closed position.

1,418,480. MANIFOLD ATTACHMENT FOR TYPEWRITERS. JOHN Q. SHERMAN, Dayton, Ohio. Filed Oct. 24, 1919. Serial No. 332,882. 7 Claims. (Cl. 197—126.)

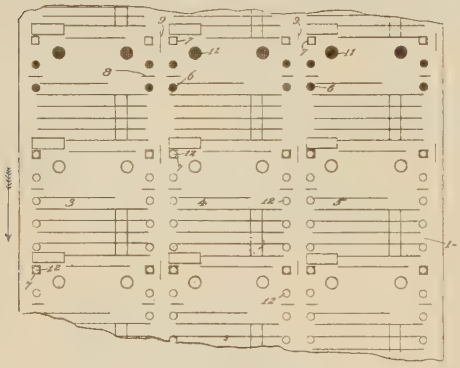
1. In a manifolding attachment for typewriters having a carriage and a rotatable platen feed, the combination of a paper mounting means for a plurality of strips of paper,

and a paper feeding means interposed between the platen feed and the paper mounting means, comprising toothed



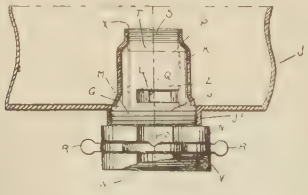
rotary means to engage successive holes in the paper strips to feed and align them prior to any contact with the platen.

1,418,481. PRINTING AND PUNCHING MANIFOLDING PAPER. JOHN Q. SHERMAN, Dayton, Ohio. Filed Dec. 4, 1920. Serial No. 428,185. 8 Claims. (Cl. 101—426.)



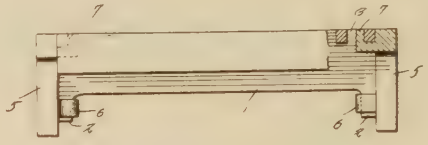
1. That method of printing and punching manifolding paper and the like, which consists in first printing upon the paper a series of forms to be used in making entries on the paper, at the same time printing upon the paper marks positioned where desired punchings are to be removed from the paper, and by a further operation feeding and punching the paper with holes designed to be located exactly with reference to said marks.

1,418,482. VALVE. WALTER W. SHORDAY, Lawndale, Pa. Filed Aug. 11, 1920. Serial No. 402,822. 9 Claims. (Cl. 158—46.5.)



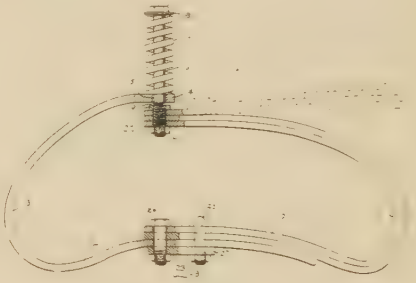
1. A valve adapted to be connected to a tank to regulate the flow therefrom, comprising three separate cylindrical members, the upper member thereof being adapted to be secured in an opening in the base of said tank, the remaining members being adapted to fit within said upper member, means to retain said members in position, ports in said members and means to position said ports in and out of communication with each other, substantially as described.

1,418,483. GRATE FRAME. EDWIN B. SMITH, Marion, Ind., assignor to The Marion Machine Foundry and Supply Company, Marion, Ind., a Corporation. Filed Sept. 7, 1920. Serial No. 408,570. 1 Claim. (Cl. 110—152.)



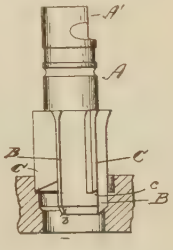
In a grate the combination of side members and a bar inserted therebetween, each side member being provided with an inwardly extending hook upon the upper portion thereof and with an inwardly extending apertured lug upon the lower portion thereof, said bar being provided with a longitudinal series of apertures opening downwardly through the upper portions thereof, with downwardly extending lugs at the ends of the bar and with laterally extending teeth, the end apertures in the bar constituting seats for the hooks, and the apertured lugs constituting seats for the downwardly extending lugs.

1,418,484. SHOCK ABSORBER. JAMES T. SMITH, SYLVESTER S. WILKINS, and JOSEPH M. MANNING, Portland, Oreg. Filed Feb. 9, 1921. Serial No. 443,665. 2 Claims. (Cl. 267—29.)



1. In a shock absorber, the combination with a double U-shaped spring supporting a car, a single U-shaped spring whose upper end is positioned above the top of said double spring, a spiral spring above and acting upon said single spring, a bolt arranged within said spiral spring passing loosely through said single spring and clamping said double spring to the car spring.

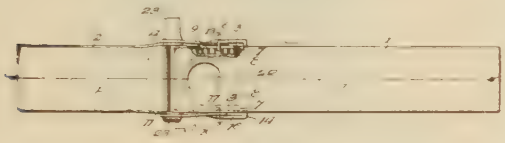
1,418,485. BORING TOOL. JOHN HUGO SMITH, Detroit, Mich., assignor, by mesne assignments, to The Eclipse Interchangeable Counterbore Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 20, 1920. Serial No. 411,537. 3 Claims. (Cl. 77—58.)



1. A tool of the character described, comprising a head, and a plurality of integral radial ribs, the outer ends of

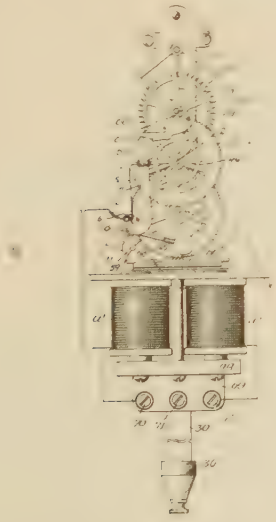
which form cutting teeth, said ribs being alternately spaced and different in length and diameter and the ribs of less diameter constituting pilot teeth and projecting beyond the ends of the ribs of greater diameter and extending substantially the entire length of the head, whereby the proper relation between the cutting ends of the ribs may be maintained at all times.

1,418,486. ADJUSTABLE SURGICAL SPLINT. HENRY V. SMITH, Chester, Pa. Filed Aug. 18, 1917. Serial No. 186,891. 2 Claims. (Cl. 128—88.)



1. In a surgical splint of the class described, the combination of a base element, a limb supporting element, both of said elements being substantially flat and formed of thin light material, hinging devices for the adjacent ends of said elements and duplicate sets of locking and bracing devices one set at each side thereof, all of said parts being arranged to provide a limb support without projecting obstructions on either the upper sides or the lower sides and to have the surfaces of the upper sides of both elements brought to and maintained in a common plane.

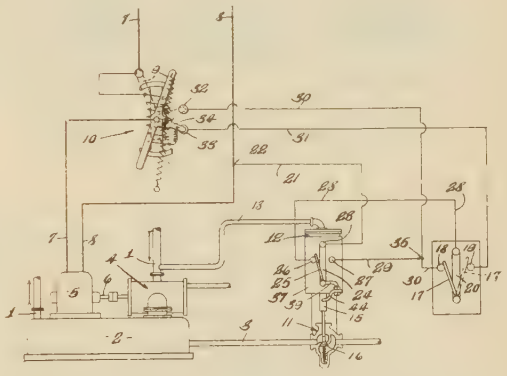
1,418,487. KEYLESS CLOCK. ALFRED L. SOHM, Chicago, Ill. Filed Sept. 18, 1919. Serial No. 324,535. 9 Claims. (Cl. 58—41.)



1. In an electrical circuit, contacts for closing said circuit, and means for scraping said contacts clean before they engage to close the circuit.

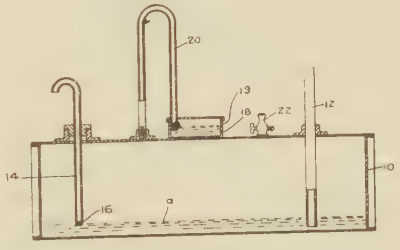
1,418,488. CONTROL FOR REFRIGERATING APPARATUS. EDWARD B. SPALT and FRANCIS R. MEGINNISS, Albany, N. Y., assignors to Geo. Spalt & Sons, Inc., Albany, N. Y., a Corporation of New York. Filed Sept. 7, 1918. Serial No. 253,120. 2 Claims. (Cl. 62—4.)

1. In a refrigerating apparatus, the combination of a circulating pipe for the expansible refrigerant, a condenser, a compressor, an electric motor for operating the compressor, an intake pipe for conducting a cooling medium to the condenser, a feed circuit for the motor, a switch in one leg of said circuit, a remote control switch for opening and closing the first switch comprising a switch arm, and a pair of contacts with which the arm alternately engages, a thermostatic switch comprising a switch arm, and contacts with which the thermostatic switch arm alternately engages, conductors connecting the contacts of the thermostatic switch with the contacts of the remote control switch, a pressure operated switch comprising a movable switch arm, and contacts with which the arm alternately engages, one of the last mentioned contacts being connected by a conductor to the arm of the thermostatic switch and the other con-



tact being connected by a conductor to one of the contacts of the thermostatic switch, a conductor connecting the arm of the pressure operated switch and teh other leg of the feed circuit, a pipe for conducting a cooling medium to the condenser, a valve for opening and closing such pipe, a pressure operated device connected to the valve to open and close the same, such device being connected to the circulating pipe for the expansible refrigerant, and connections between the valve and the switch arm of the pressure operated switch whereby this switch arm is shifted by the movement of the valve, substantially as and for the purpose described.

1,418,489. LIQUID-FUEL-FEED SYSTEM FOR GAS ENGINES. FRANKLIN W. SPRINGER, Minneapolis, Minn. Filed Feb. 13, 1920. Serial No. 358,331. 11 Claims. (Cl. 158—46.)

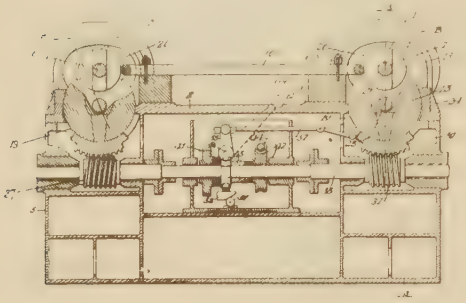


1. A liquid fuel feed system for gas engines comprising a supply tank, a feed pipe for conducting the fuel from said tank to the engine, means for maintaining a constant pressure head in said tank, and means for preventing flooding when the temperature of the fuel rises.

1,418,490. MILLING MACHINE. WILLIAM C. SPROUL, Rockford, Ill. Filed Feb. 16, 1920. Serial No. 359,061. 26 Claims. (Cl. 90—15.)

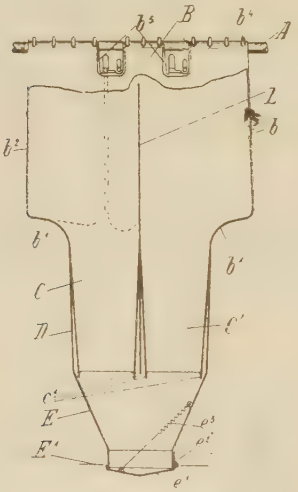
1. A milling machine comprising a pair of laterally spaced oscillatory cutter spindle drums, a cutter spindle

on each drum eccentric to the axis thereof, means for supporting work in a stationary position between said drums, means for revolving the cutter spindles, and means



for oscillating the drums to feed the revolving cutters toward and from each other in feed and return movements, whereby to mill the interposed work.

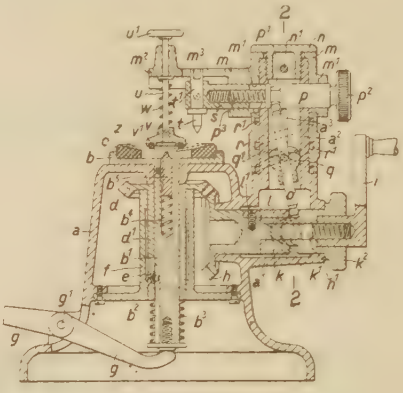
1,418,491. BALLAST CONTAINER FOR AIRCRAFT. KARL STAHL, Friedrichshafen, Germany, assignor to The Firm: Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Filed June 28, 1920. Serial No. 392,602. 3 Claims. (Cl. 244—1.)



1. A ballast container comprising in combination, a bag, a hose of large section extending from an opening in the bottom of said bag and means for releasably fastening the free edge of said hose inside said bag and in the upper part thereof.

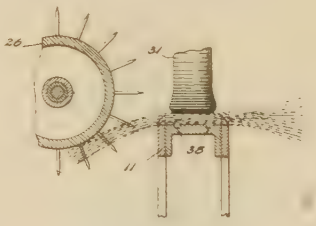
1,418,492. MACHINE FOR CUTTING NONCIRCULAR GLASSES. ADOLF STEINLE, Jena, Germany, assignor to the Firm of Carl Zeiss, Jena, Germany. Filed Aug. 13, 1921. Serial No. 492,125. 1 Claim. (Cl. 33—28.)

In a machine for cutting non-circular glasses, a rotatable table, a cutting tool, a slide carrying the said tool, a two-armed lever playing in a plane containing the axis of the table, a member coupled with the said table and having a guiding groove, one end of the said lever coacting with the said slide whilst the other end coacts with



the said guiding groove, and means for adjusting the point of rotation of the said lever in the direction of its longitudinal axis.

1,418,493. MACHINE FOR CLEANING OR HACKLING FIBER. JAMES B. STENGER, EDMUND MCCAFFRAY, and CHARLES E. OYLER, Baltimore, Md., assignors to Hamilton Cassard & Co., Baltimore, Md., a Corporation of Maryland. Filed Feb. 9, 1921. Serial No. 443,598. 4 Claims. (Cl. 19—128.)

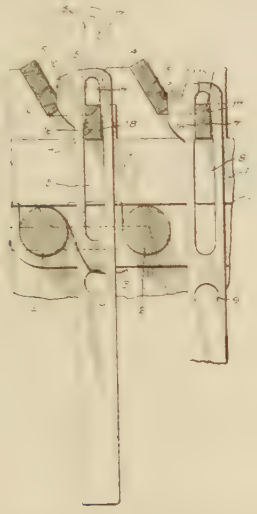


4. In a machine of the class described, in combination, relatively stationary means for combing fibrous materials, and means for feeding such materials past the combing means including two rotatable wheels arranged in the same plane and adapted to cooperate to hold the fiber between them one of said wheels having a tire of yielding material to firmly grip the fiber without injuring the same.

1,418,494. WARP STOP MOTION FOR LOOMS. EDWARD S. STIMPSON, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Aug. 22, 1921. Serial No. 494,297. 5 Claims. (Cl. 139—92.)

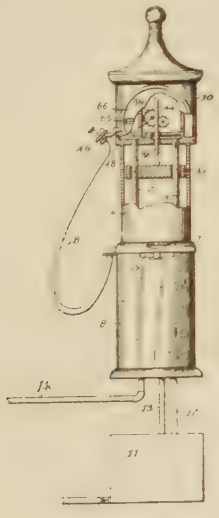
2. In a warp stop motion for looms, the combination of drop wires provided with feeler arresting portions and each having an opening provided with a vertical bearing wall adjacent the feeler arresting portion and an opposite positioning wall inclined to and converging upwardly toward the vertical bearing wall, a drop wire guide extending through the opening of the drop wires and having a straight face adapted to engage the bearing wall of the opening and back up the drop wire opposite and against the pressure of the feeler, and a portion adapted to engage the inclined positioning wall of the opening when a wire

fails to be held raised by a warp thread, that the inclined positioning wall of the opening may cooperate with the



guide to hold the vertical bearing wall of the opening in firm engagement with the straight face of the guide.

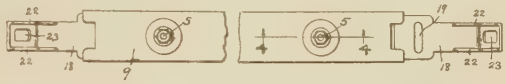
1,418,495. AUTOMATIC REGISTER FOR LIQUIDS. EMORY SUDLER and CHARLES E. SUDLER, Tarrytown, N. Y. Original application filed Mar. 19, 1920, Serial No. 367,045. Divided and this application filed Mar. 5, 1921. Serial No. 449,690. 6 Claims. (Cl. 235—94.)



1. A quantity and value indicating means for liquid pumps including a receptacle equipped with mechanism automatically operated by diminution of the contents of the receptacle, means controlled by said mechanism to indicate the quantity and value of the liquid dispensed from the receptacle, and secondary mechanism to render said indicating means inoperative when refilling the receptacle.

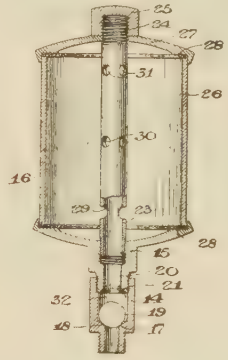
1,418,496. ELECTRIC HEATER. FRANK G. VAN DYKE, Detroit, Mich. Filed Nov. 15, 1920. Serial No. 424,102. 3 Claims. (Cl. 219—19.)

1. An electric heater comprising a sheet metal strip having its edges folded over, two strips of insulation and a heating element between them held in position by the edges of the strip, adjustable fastening devices at the ends of the metal strip and having holes in their ends, a bolt passing through said holes to draw the heater around the article to be heated, said heating element comprising



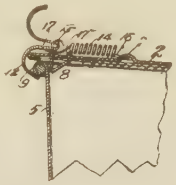
flat parallel strands and ends connected integrally to the strips, and binding posts extending from the ends of the heating element.

1,418,497. SOAPING DEVICE. JOHN VAUDREUIL, Milwaukee, Wis., assignor to Sanitary Dishwashing Machine Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 6, 1920. Serial No. 422,351. 6 Claims. (Cl. 299—84.)



1. The combination, with the pipe for conducting water to a dishwashing machine, of a soap receptacle communicating with said pipe, and a valve controlling the passage of water to said receptacle, said valve having two closing positions and being movable between said positions to permit and assist in the passage of soap solution into said pipe when the water supply is turned on and off.

1,418,498. RECEPTACLE COVER. ALBERT JOSEPH WALLACE, Algonac, Mich. Filed Dec. 16, 1920. Serial No. 431,132. 1 Claim. (Cl. 220—55.)

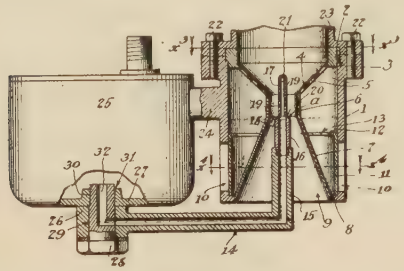


In a device of the character described, the combination of a cover, an adjustable clamping device mounted upon said cover, said clamping device being formed from a strip of material and comprising a V-shaped body, the side arms of the V-shaped body being extended and curved apart to form enlarged oppositely extending upper and lower hooks, the lower hook being adapted to engage a receptacle, the upper hook constituting a grip, and retracting means connected to the base of the V-shaped body and to said cover, as and for the purposes set forth.

1,418,499. CARBURETOR. FREDERICK G. WASHBURN, Los Angeles, Calif. Filed July 24, 1919. Serial No. 313,062. 1 Claim. (Cl. 261—41.)

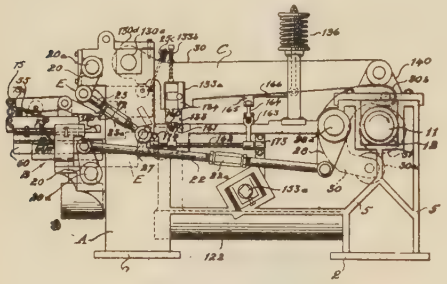
In a carburetor, in combination, a tubular body, an inverted hollow frusto-conical member inside of the body

provided at intervals therearound with auxiliary air inlet perforations and otherwise closing the upper end of the tubular body, a tubular member joined to the lower end of the frusto-conical member, a hollow frusto-conical member joined to the lower end of said tubular member and closing the lower end of the hollow body and having its lower end open, and a nozzle in the frusto-conical member projecting through the tubular member into the inverted frusto-conical member and comprising lower and



upper sections, the lower section having a duct of larger diameter than the duct of the upper section, and there being an orifice in the nozzle communicating with the larger duct adjacent the lower end of the tubular member and there being an orifice in the nozzle communicating with the smaller duct at the upper end of the nozzle, there being ports in the tubular body and space for the passage of air from the ports to the inlet perforations.

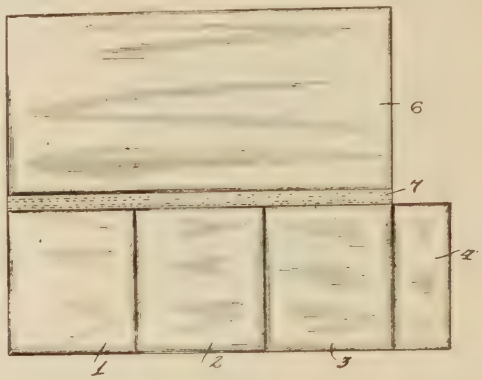
1,418,500. AUTOMATIC SPIKE-MAKING MACHINE. GOTTLIEB WEBER, Youngstown, Ohio, assignor, by mesne assignments, to Russell-Weber Steel Products Company, Youngstown, Ohio, a Corporation of Delaware. Filed Mar. 22, 1920. Serial No. 367,987. 41 Claims. (Cl. 10—57.)



1. A spike machine comprising a supporting frame, stock gripping, pointing, heading and ejecting mechanism and means for actuating said mechanism supported in said frame, a reciprocating feed carriage, a laterally oscillating support for said carriage and straightening jaws mounted between said carriage support and said frame, whereby the bar stock will be guided into the machine and straightened.

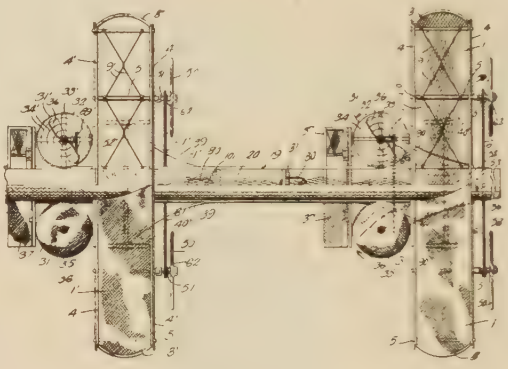
1,418,501. MATTRESS. SAMPSON WEINSHENK, Chicago, Ill. Filed May 21, 1920. Serial No. 383,087. 2 Claims. (Cl. 5—5.)

1. In a device of the class described, a mattress comprising several sections, hinge connections between said sections, the width of each hinge connection being less than half the thickness of the mattress, a pillow, a hinge connection between said pillow and the mattress, the width of said hinge connection being more than half the thickness of the mattress, a cover for the mattress, a hinge connection between the mattress and said cover, the width of said connection being greater than half the thickness of the mattress, a water-proof reinforcement secured to one face of the mattress and a reinforcement secured to that face of the cover which when the device is unfolded is on



the same side as the reinforcement of the mattress, the width of the cover being greater than the width of the mattress.

1,418,502. AEROPLANE. WILLIAM W. WERT, Dayton, Ohio. Filed June 4, 1917. Serial No. 172,723. 10 Claims. (Cl. 244—15.)

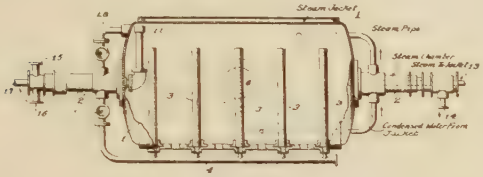


1. In a flying machine of the character described, a longitudinally disposed back bone or main frame structure, two pairs of superposed supporting planes transversely arranged relative to the back bone or main frame, said pairs of planes being arranged in tandem relation, a pair of helicopters arranged contiguous to the rear edges of each of the pairs of supporting planes and rotating substantially in common planes therewith, the individual helicopters of each pair being positioned on opposite sides of the back bone or main frame, guiding rudders carried upon the main frame, actuating propellers, and means for independently actuating the individual helicopters of each pair, substantially as specified.

1,418,503. OIL AND LIKE EXTRACTOR. KARL FRIEDRICH WILHELM, Stralsund, Germany. Filed Nov. 11, 1913. Serial No. 800,352. 2 Claims. (Cl. 87—13.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

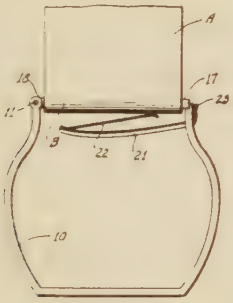
2. In an apparatus for extracting oil and fat from various materials, the combination with a double-walled hollow cylinder which is rotatably supported on hollow shafts, of transverse filtering pipes detachably arranged within the cylinder, a discharge pipe carried along the outside of the cylinder and communicating, through apertures made in the cylinder wall, with the filtering pipes and also with the hollow shaft so that liquid can be discharged during the rotation of the cylinder, means for introducing a solvent into the cylinder through one of the

hollow shafts, means for simultaneously circulating steam through the space between the cylinder walls, and a second discharge pipe connected to the end wall of the cylinder near the circumference and communicating with the



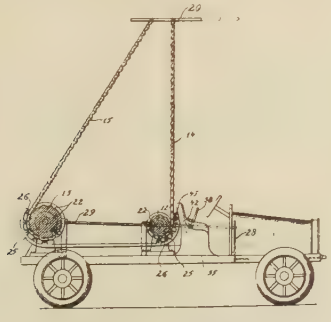
cylinder as well as with the hollow shaft so that liquid can be drawn off from various altitudes within the cylinder according to the position of the pipe inlet, substantially as and for the purpose set forth.

1,418,504. AUTOMATIC RELEASING STIRRUP. PAUL N. WINKLEY, Casper, Wyo. Filed Sept. 28, 1921. Serial No. 503,763. 2 Claims. (Cl. 54—49.)



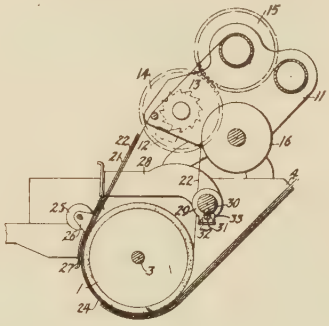
1. In combination with a stirrup strap formed with a loop, a U-shaped stirrup, a bar hinged upon the upper end of one arm thereof and having its free end formed with a recess and a hole leading there into, the upper end of the other arm of the stirrup being bifurcated to define inner and outer ears formed with registering openings, said bar normally passing through said loop and having its free end fitting within said bifurcation with said recess receiving the inner ear, and with the hole in the bar registering with said openings, a lever pivoted upon said second mentioned arm of the stirrup and extending below said loop, a leaf spring secured upon the free end of said lever and engaging against said loop, and a locking pin pivotally connected with the other end of said lever and slidably engaged through said hole and said registering openings.

1,418,505. FIRE-FIGHTING APPARATUS. JAMES D. WOLF, Croton-on-Hudson, N. Y. Filed Apr. 22, 1921 Serial No. 463,444. 1 Claim. (Cl. 228—41.)



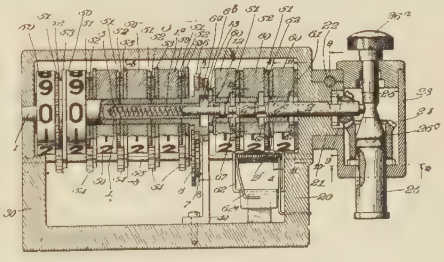
A device of the type described comprising a support, a pair of drums on said support, ladder elements comprising posts adapted to be wound on the respective drums said ladder elements having their posts comprising short bars hinged together along one side edge to abut end to end, springs holding said bars against swinging movement upon one another, said posts inclining toward one another from the base of each ladder element toward the top, and rounds mounted on said bars, the rounds on the upper bars being set further from the hinged side edges of the posts than the rounds on the lower bars, the upper bars having their hinged side edges notched to register with the rounds on certain of the lower bars when said elements are wound on their respective drums.

1,418,506. TYPEWRITING MACHINE. ALFRED J. WOOD, Waldwick, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 17, 1920. Serial No. 431,324. 5 Claims. (Cl. 197—132.)



1. The combination of a revoluble platen having a comparatively hard printing field and provided outside of said field with soft rubber sheet-feeding bands or inlays flush with the platen, and means to co-operate with said soft rubber inlays to feed sheets around the platen only by means of narrow side margins on said sheets, said co-operating means consisting only of rolls, one for each of the soft rubber inlays, each roll running only upon the soft rubber.

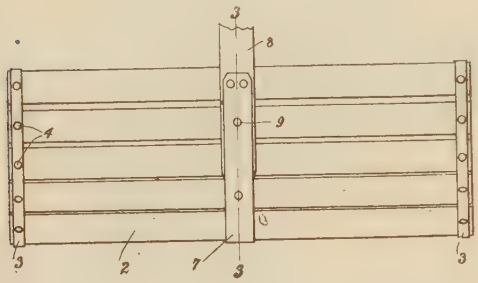
1,418,507. COUNTER TRAIN. ANDREW C. WOOD, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Jan. 24, 1920. Serial No. 353,770. 5 Claims. (Cl. 235—144.)



1. A counter train comprising a succession of dials or number wheels and gears connecting them for carrying; means for rotating all the dials together in reverse direction, comprising means for picking them all up by the rotating means at the same points in their respective number series, gear transmissions from dial to dial comprising intermediate gear elements liable to mis-meshing in their reverse rotation, tending to their disengagement; parts on which said intermediate gear elements are carried, mounted for movement to carry said intermediate elements out of mesh, and springs constituting the sole

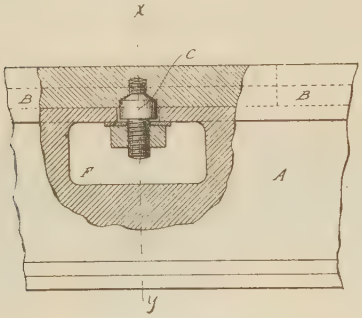
means of holding them in their meshing position; whereby disengagement of said gears is caused automatically in the reverse rotation upon the occurrence of mis-meshing.

1,418,508. BASKET. TIMOTHY MILLER WOODHULL, Swansboro, N. C. Filed Oct. 18, 1920. Serial No. 417,678. 1 Claim. (Cl. 217—125.)



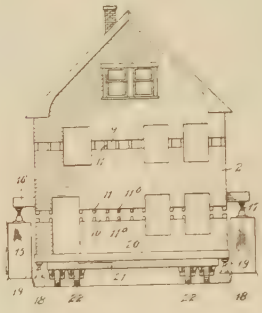
A basket comprising heads, slats secured at their ends to the heads, a bail extending over the middle portion of the basket and having its ends lapping the upper slats at each side of the basket but terminating above the bottom slat, and a strap extending under the middle portion of the basket and having its ends lapping the ends of the bail, and fastening means extending through the ends of the strap and through the ends of the bail for fastening them together and to the adjacent slats, said strap constituting means for transmitting the weight of the basket and its contents from the bottom portion thereof to the end portions of the bail.

1,418,509. TRAMWAY RAIL HAVING REMOVABLE TREAD. FREDERICK ADAMS, Bradwell, England. Filed Nov. 16, 1921. Serial No. 515,482. 1 Claim. (Cl. 238—143.)



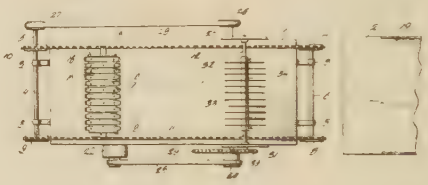
A track rail with separate bearer and tread portions the bearer having its upper part or flange formed as a trough with plane horizontal base and plane outwardly sloping sides in combination with a tread portion having a base and sides shaped congruently with those of the trough in the bearer; screw studs secured in the base of the tread and projecting downwards through holes in the head of the bearer and into holes in the web of the same and there fitted with washers and nuts for screwing the tread to the bearer, the whole in combination and as or substantially as herein described and illustrated by the drawings.

1,418,510. METHOD OF MOVING BUILDINGS FROM ONE SITE TO ANOTHER. ORION ALEXANDER, Cleveland, Ohio, assignor to The Alexander Construction Company, Cleveland, Ohio. Filed Nov. 1, 1920. Serial No. 421,010. 17 Claims. (Cl. 20—1.)



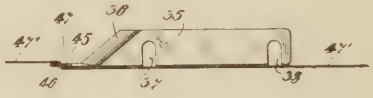
12. The herein described method comprising cutting a family dwelling into superimposed sections, and moving one to a new location.

1,418,511. BREAD-SLICING MACHINE. JOHN M. AYALA, Honolulu, Hawaii. Filed Mar. 23, 1921. Serial No. 454,740. 3 Claims. (Cl. 146—11.)



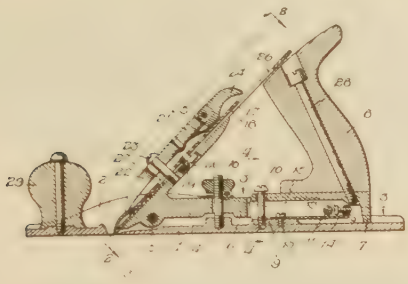
1. A bread slicing machine comprising a plurality of bread-carriers arranged to travel in an endless path, and automatically discharging at a given point in said path, each of said bread carriers consisting of a base member and a series of spaced U-shaped members having their central portions extending across and secured to the base member and their ends projecting upwardly from the front and rear of said base member, and means disposed in the path of the traveling carriers for penetrating the same and slicing the contents thereof, and means at the discharge point for receiving the sliced contents of the carrier.

1,418,512. WOVEN-IN KNIFE FOR PILE-FABRIC LOOMS. THEODOR BACHOFEN, West Hoboken, N. J. Filed Nov. 12, 1921. Serial No. 514,434. 8 Claims. (Cl. 139—62.)



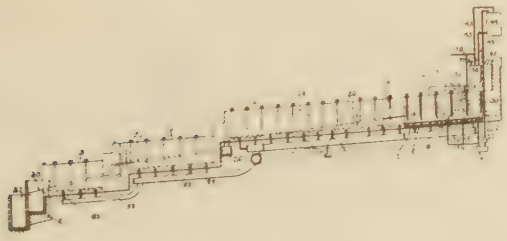
1. In a device of the class described, the combination with a knife blade having a tongue extending in front of the cutting edge, of a wire disposed substantially in the plane of said blade, said wire being bent angularly to pass through an opening in said tongue and then extend adjacently outward beyond the lower edge of said blade, said knife blade being disposed between the breast of a loom and the reed thereof.

1,418,513. CARPENTER'S PLANE. CYRUS BAILEY, Chicago, Ill. Filed July 10, 1920. Serial No. 395,300. 8 Claims. (Cl. 145—5.)



1. In means for supporting and positioning the blade or bit of a plane, a blade or bit holder, a blade and a cap plate secured together by a screw, the said holder having an opening to receive the head of said screw, so that the cap plate is non-adjustable up and down on said holder which forms a bed for the bit, whereby the blade or bit although held or anchored against up and down adjustment can be oscillated to accurately adjust the cutting edge thereof, relatively to the bottom surface of the plane, a clamp for engaging said plate to clamp the blade or bit in position, said clamp having a notch at its lower end to permit pressure on the lower portion of said plate to hold the blade or bit in place while the clamp is being adjusted into position, means for entering said notch and securing the clamp in place, and means to support and adjust said holder in position to accurately present the edge of the blade.

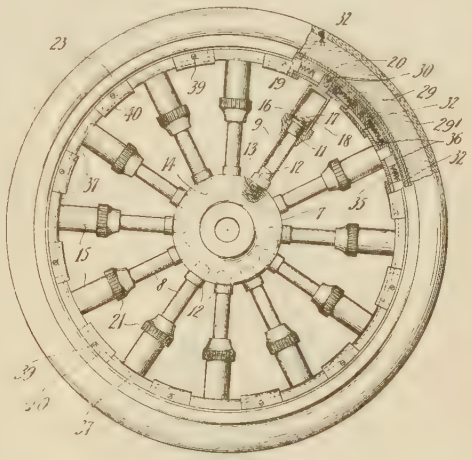
1,418,514. CONCENTRATION OF ORES. LEWIS BAILEY, Hayden, Ariz., assignor to Minerals Separation North American Corporation, New York, N. Y., a Corporation of Maryland. Filed Nov. 9, 1917. Serial No. 201,062. 11 Claims. (Cl. 83—85.)



1. The process of concentrating ores, which consists in first subjecting a pulp of comminuted ore and water, to oiling aeration by distributing therein, air containing oil vapor, and then to further aeration by distributing air alone therein.

1,418,515. AUTOMATICALLY-OPERATING PNEUMATIC WHEEL FOR MOTOR AND OTHER VEHICLES. HUBERT CHARLES BAQUIE, North Carlton, near Melbourne, Victoria, Australia. Filed Sept. 4, 1919. Serial No. 321,725. 2 Claims. (Cl. 152—48.)

1. A wheel of the class described having a hub, tubular spokes secured to the hub, piston heads at the outer ends of said tubular spokes, cylinders fitting over said piston heads, a rim to which said cylinders are connected, and glands detachably connected to the inner ends of the

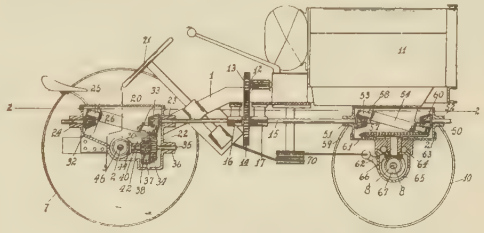


cylinders and having openings through which the tubular spokes extend.

1,418,516. TROUGH. GEORGE G. BAYNE and JOHN C. HOEHNEN, Bushnell, Ill. Filed Jan. 20, 1921. Serial No. 438,538. 1 Claim. (Cl. 119—61.)

A sheet metal trough comprising a semi-cylindrical body, oblique plane end portions, the sides of said body projecting beyond said plane end portions, connecting metal between said end portions and said body comprising parts nearly parallel to the sides of said body and being close to said sides where said sides project beyond said plane end portions, all constituting one integral piece of sheet metal, a flange integral with the side edges of said body, supporting means extending across the end of the body beneath the same, reinforcing means extending across and covering the upper edges of the end portions, and common securing means fastening said reinforcing means and said support to said flange, the flange being folded around the edge of said supporting means.

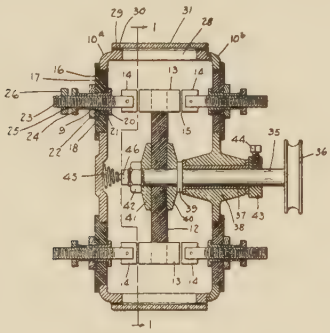
1,418,517. POWER TRANSMISSION. THEODORE C. BRANDON, Fallon, Nev. Filed Feb. 15, 1921. Serial No. 445,240. 1 Claim. (Cl. 74—7.)



In a power transmission for tractors, a power transmission shaf , an inclined ring gear mounted concentrically of said shaft, teeth on the upper side and teeth on the lower side of said gear, a bevel gear on said shaft meshing with the teeth on the upper side of said gear, a bevel gear on said shaft meshing with the teeth on the

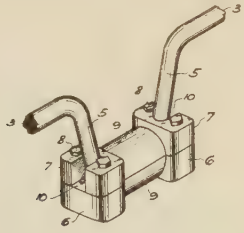
lower side of said gear, two tractor axles, right and left tractor wheels on said axle respectively, a bevel gear meshing with one set of teeth on said inclined gear, a spur gear rotatable by said bevel gear concentrically therewith, two shafts, a pinion on one end of each of said shafts meshing with said spur gear, a bevel gear on the other end of said two shafts respectively, and bevel gears on said two axles respectively meshing with said bevel gears respectively on said two shafts.

1,418,518. QUENCH ROTARY SPARK GAP. EARL F. BELL, Indianapolis, Ind. Filed Sept. 20, 1920. Serial No. 411,640. 2 Claims. (Cl. 250—38.)



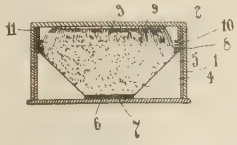
1. In a rotary quench spark gap machine including in combination an enclosing casing, a pair of separated terminals, a rotatable member, a conducting member extending parallel to the axis of rotation of said rotatable member and movable into position when rotated to complete the circuit through said terminals, a bearing in said casing, a shaft rotatable in said bearing and supporting said rotatable member, and tension means for preventing said shaft and rotatable member moving longitudinally of said bearing.

1,418,519. CRANK-PIN SLEEVE. CHARLES C. BETTENHAUSEN, Princeton, Nebr. Filed Feb. 20, 1922. Serial No. 538,014. 3 Claims. (Cl. 74—33.)



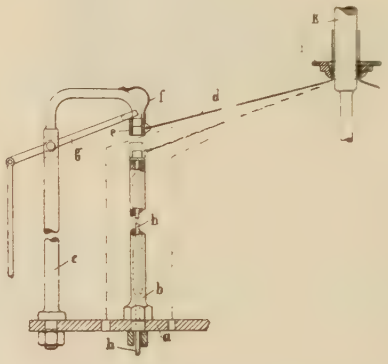
1. A crankpin sleeve comprising a split tube, and means for holding the sections of the tube together and to the crankpin, said tube being adapted to turn in a bearing and to engage the arms of the associated crank-shaft nonrotatably.

1,418,520. CONTAINER FOR POWDER. STANLEY SEPTIMUS BOOTY, Sutton, England. Filed Feb. 6, 1920. Serial No. 356,671. 12 Claims. (Cl. 132—82.)



10. A receptacle for toilet and other powders comprising a box, a flexible walled container for powder therein, a frame connected to the upper edges of said walls, resilient means adapted to force the frame away from the base of the container and cause the walls thereof to be drawn together, and means whereby a puff device may be secured in contact with the frame.

1,418,521. LACE-BRAIDING MACHINE. EUGEN TÜRCK, Langerfeld, near Barmen, and EMIL RÖSEBECK, Barmen, Germany. Filed Nov. 20, 1920. Serial No. 425,551. 7 Claims. (Cl. 96—18.)



1. A lace braiding machine, comprising in combination a track plate having a plurality of circularly arranged discs defining the track for circulating the bobbins, a centrally disposed mandrel for receiving the braided web, a collector-ring surrounding the mandrel for gathering up the transitional web from the bobbins, a plurality of thin, resilient wires normally held just over the transitional web with their upper ends extending upwardly between said collector-ring and mandrel, and means for shifting the lower ends of any of said wires in and out of the transitional web for generating eyes therein.

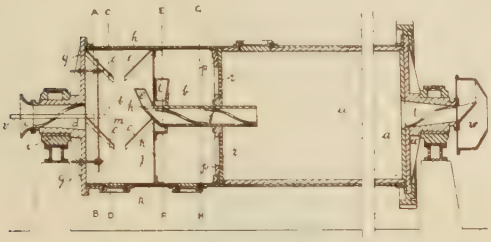
1,418,522. AEROPLANE. HOMER L. BOYLE, Lansing, Mich. Filed Sept. 11, 1918. Serial No. 253,574. 7 Claims. (Cl. 244—25.)

6. In a flying machine, the combination of a balancing wheel provided with a gear, a shaft, a pair of gears splined to said shaft to coact with said balancing wheel gear and a controlling weight adapted to shift said gears on said shaft, all coacting as specified.

1,418,523. APPARATUS FOR GRINDING, CLASSIFYING, AND DECANTING ORES. JOSEPH RICHARD BROADLEY, London, England. Filed Sept. 30, 1920. Serial No. 413,751. 8 Claims. (Cl. 83—9.)

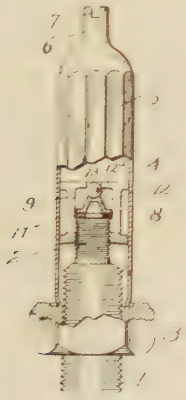
1. An ore treating apparatus comprising a rotary cylinder provided at one end with a hollow trunnion constituting an axial ore inlet and at its other end with a hollow trunnion constituting an axial ore outlet, a dividing apertured partition in said cylinder forming on

the ore inlet side a grinding chamber adapted to contain grinding balls or pebbles and on the ore outlet side a



hydraulic classifying chamber having a water supply and in which the slimes separated by gravity from the sands flow out through the said axial outlet.

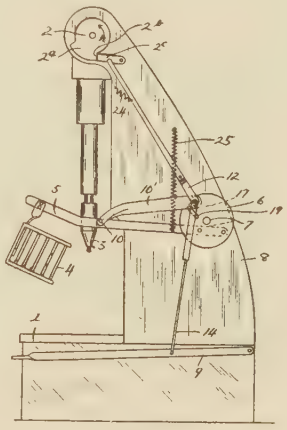
1,418,524. DUST-CAP CONSTRUCTION. ADELBERT E. BRONSON, Cleveland, Ohio. Filed Jan. 5, 1921. Serial No. 435,112. 9 Claims. (Cl. 152—12.)



9. A dust cap comprising a shell which is open at one end, a member having a central opening within said shell, which member slidably engages the inner wall of the shell, the said member having oppositely disposed portions which may be expanded, expanding means within the central opening of the said member, cooperating means upon the expanding means and the portions of said member adapted to be expanded for the purpose described.

1,418,525. SAFETY ATTACHMENT FOR PUNCH PRESSES. WILLIS A. BROWER, Adrian, Mich., assignor to Michigan Mutual Liability Company, Detroit, Mich., a Corporation of Michigan. Filed Aug. 27, 1921. Serial No. 495,952. 8 Claims. (Cl. 74—105.)

1. In a safety attachment for machines, the combination with the table of a machine and a tool movable to and from said table, of a trip mechanism controlling said movement of the tool, a guard member for said tool, a pivotal arm carrying said guard member having a lateral extension from its pivotal end slotted substantially in the direction of the pivot, a trip release bar actuable toward the pivotal end of said arm to effect release of said trip mechanism, a pin carried by said bar and engaging in said slot, a stationary abutment engaging said pin between the same and the pivot of said arm to normally lock said trip release bar against releasing movement, and means engaging said pin for rocking said arm to lower the guard to its protective position and thereby shift said pin clear



of said abutment, and for subsequently shifting said pin and the trip release bar toward the pivot of the arm to release the trip mechanism.

1,418,526. PROTECTIVE GARMENT. AMANDA C. BROWN, Brooklyn, N. Y. Filed July 31, 1920. Serial No. 400,368. 2 Claims. (Cl. 2—135.)

1. A protective garment comprising a bag-like portion loosely enveloping the hips and thighs of the wearer and adapted to receive the skirt of a garment to be protected, openings in the lower edge of said bag-like portion, cuffs extending from said openings and adapted to embrace the legs of the wearer at about the knees, means for securing said bag-like portion about the waist of the wearer, an outer skirt portion secured along its upper edge to said bag-like portion at a point below the waist band thereof, and means for securing said outer skirt portion together, substantially as specified.

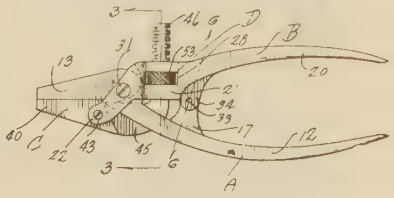
1,418,527. PRODUCTION OF BERYLLIUM COMPOUNDS. LOUIS BURGESS, Bayonne, N. J. Filed Aug. 16, 1921. Serial No. 492,822. 10 Claims. (Cl. 23—13.)

1. The process which consists in treating an oxidized ore of beryllium with carbon and heat to produce a compound of beryllium and a member of the carbon group, and reacting upon said compound with gaseous hydrochloric acid to produce beryllium chlorid.

1,418,528. PROCESS FOR PRODUCTION OF ZIRCONIUM COMPOUNDS. LOUIS BURGESS, Bayonne, N. J. Filed Aug. 16, 1921. Serial No. 492,823. 9 Claims. (Cl. 23—13.)

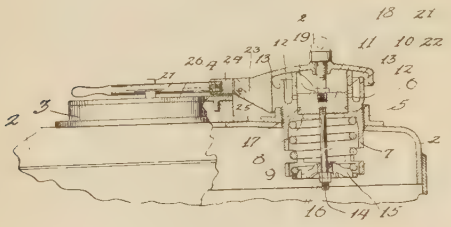
1. The process which consists in treating an oxidized ore of zirconium with carbon and heat to produce a compound of zirconium and a member of the carbon group, and reacting upon said compound with gaseous hydrochloric acid to produce zirconium chlorid.

1,418,529. COMBINATION TOOL. LOUIS R. BURNELL, Saginaw, Mich. Filed Feb. 21, 1921. Serial No. 446,671. 11 Claims. (Cl. 7—4.)



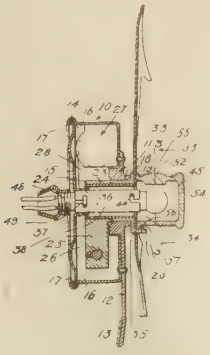
1. In combination, a jaw, a handle rigid therewith, a second handle pivotally connected to said jaw, means for rigidly connecting said second handle to said first-mentioned handle, and a second jaw adjustably mounted on said second-mentioned handle.

1,418,530. INDICATING AND MANHOLE-LOCKING SAFETY VALVE FOR TANK CARS. CLIFFORD LISTON BURNHAM, Chicago, Ill. Filed Nov. 13, 1919. Serial No. 337,874. 5 Claims. (Cl. 220—25.)



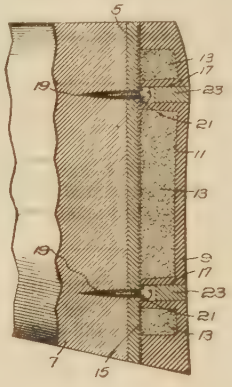
1. A safety valve for a tank car adapted to be mounted adjacent to the manhole cover of the tank car, and means on the safety valve preventing detachment of the manhole cover without movement of the safety valve into a released position.

1,418,531. DIRECTION INDICATOR FOR VEHICLES. JOHN B. BUSHNELL, Los Angeles, Calif. Filed Dec. 2, 1920. Serial No. 427,700. 4 Claims. (Cl. 116—48.)



1. A direction indicator, comprising a casing, a shaft journaled in said casing, an indicating blade, a lighting unit, a housing for said lighting unit, means mounted in said casing for operating said shaft, and a spring locking member for securing said housing and indicating blade to said shaft.

1,418,532. RECOIL PAD. JAMES R. CALDWELL, New Haven, Conn., assignor to The Seamless Rubber Company, Inc., New Haven, Conn., a Corporation of Massachusetts. Filed Mar. 29, 1920. Serial No. 369,556. 3 Claims. (Cl. 42—74.)



1. A recoil pad for gun stocks comprising a relatively thin walled body of soft rubber filled and supported by a vulcanized oil.

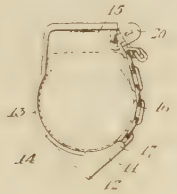
1,418,533. CASING-PULLING DEVICE. GEORGE W. CARTER and R B HAYDEN, San Angelo, Tex. Filed Sept. 24, 1920. Serial No. 412,477. 6 Claims. (Cl. 294—95.)

1. In a casing pulling device, a housing, a lip carried thereby, a dog pivotally mounted in said housing, and a trip mechanism operated by impact to move said dog to and thereafter maintain it in inoperative position.

1,418,534. SIDE CHAIN SHACKLE FOR AUTOMOBILE WHEELS. EARLE E. CHAPMAN, Los Angeles, Calif., assignor to Miller-Chapman Company, a Corporation of California. Original application filed Mar. 3, 1917. Serial No. 152,213. Divided and this application filed Mar. 2, 1920. Serial No. 363,086. 2 Claims. (Cl. 70—90.)

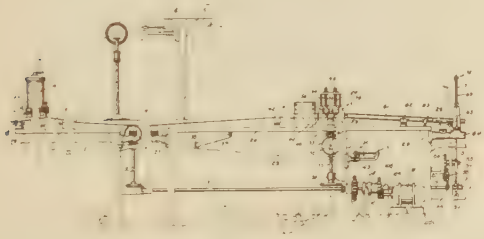
1. An auto theft signal for use on a vehicle wheel comprising a bumping block fitting on the tread of a tire carried on said wheel and carrying a projection extending

beyond the tread of said tire, said projection being of such size and shape as to permit the wheel to be freely rotated with the signal in place on the wheel, thus raising the wheel from the ground and imparting a marked bump-



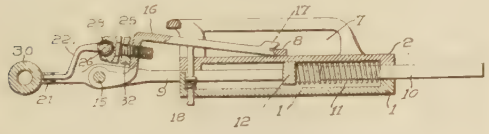
ing motion thereto; an arm rigidly fixed to one side of said bumping block and extending inside the felly of said wheel; a flexible member secured at one end to the other side of said bumping block; and a lock securing the free end of said member to said arm.

1,418,535. TUBE-MAKING MACHINE. HENRY Z. COBB, New York, N. Y., assignor to New York Belting & Packing Company, a Corporation. Filed May 7, 1920. Serial No. 379,429. 25 Claims. (Cl. 154—6.)



2. In a tube machine, stock strip feeding means, a lap former, means acting upon the feeding means to present the edges of the stock strip to the lap former, and means for joining the lapped edges.

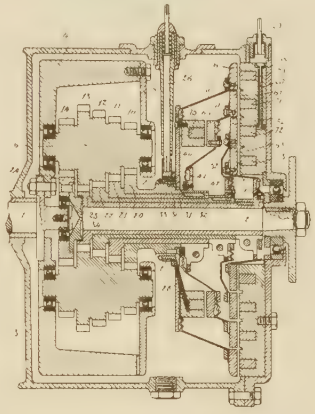
1,418,536. FEELER MECHANISM FOR LOOMS. JOSEPH COLDWELL, Newmarket, N. H., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Apr. 16, 1921. Serial No. 461,786. 4 Claims. (Cl. 139—85.)



1. In a feeler mechanism for looms, the combination of an impinging feeler, a penetrating feeler which passes loosely through the impinging feeler, an actuator, a ball and enclosing socket connection between the impinging feeler and actuator which positively connects the two and prevents disengagement of the feeler from the actuator means engaging the ball and positively holding it in the socket.

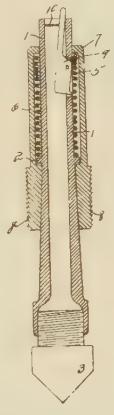
1,418,537. CHANGE-SPEED GEAR. JEAN COTAL, Puteaux, France. Filed Oct. 16, 1920. Serial No. 417,419. 2 Claims. (Cl. 74—34.)

1. A change speed gear comprising a driving shaft, a driven shaft in line therewith, a plurality of planet gears of unequal diameter mounted in bearings carried by the driving shaft, a gear fast to the driven shaft and engaging one of the planet gears, a plurality of tubular shafts on the driven shaft, and each having a sun gear engaging one of the planet gears, and also each having an armature ring, one of said tubular shafts also having a second arma-



ture ring, fixed electro-magnets arranged to attract the first named armature rings, and an electro-magnet carried by one of the tubular shafts and arranged to attract the second armature ring.

1,418,538. PIPE SPEAR. CLARENCE L. CRUTCHER, Fort Worth, Tex. Filed Dec. 13, 1920. Serial No. 430,172. 4 Claims. (Cl. 294—94.)

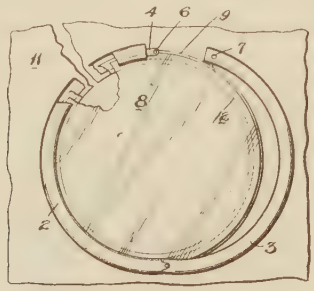


1. A pipe spear comprising an arbor having a tapering lower portion, a slip mounted thereon, a yieldable member interposed between the arbor and slip and a trip for holding said yieldable member in a compressed condition when the slip is set upon the arbor, the pipe gripping portion of the slip being forced into contact with the casing and the trip released upon an upward movement of the arbor by the diverging surfaces thereof, the said spear being removed from the casing upon a slight downward thrust of the arbor to withdraw the slip from biting contact with the casing and permit the yieldable member to expand to lift said slip.

1,418,539. CURTAIN WINDOW. JOSEPH P. DE BROECK, Santa Barbara, Calif. Filed Jan. 3, 1921. Serial No. 434,463. 2 Claims. (Cl. 296—145.)

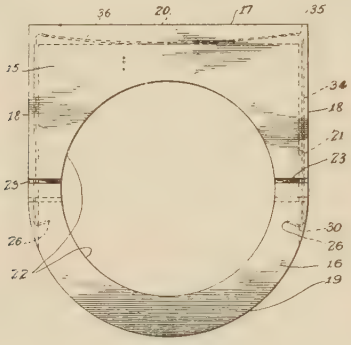
1. A window for flexible material comprising a flat strip affixed to the material about the window aperture therein

and contiguous therewith, a sheet of glass, a frame having hinged sections each formed with an outer flange en-



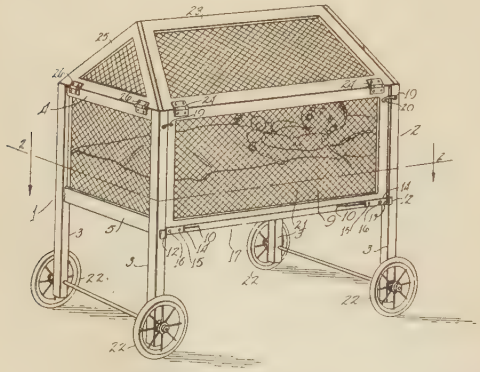
closing the glass and an inner flange lying between the material and said strip, and means for fastening the hinged frame sections together.

1,418,540. DUST GUARD. ROBERT F. DARBY, Yonkers, N. Y. Filed Mar. 3, 1921. Serial No. 449,391. 14 Claims. (Cl. 64—22.)



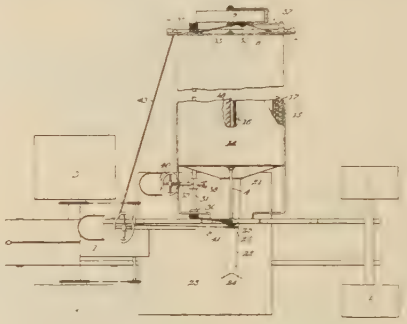
1. A dust guard comprising a laminated plate cut to form a rectangular upper section and a semi-circular lower section having between them an axle receiving opening and a single means passing from one side to another, wholly contained within the contour of the side top edges of the laminated plate for resiliently constraining the sections in operative relation, said plate presenting a substantially level upper edge.

1,418,541. CRIB. MORRIS DEMLINGER, Chicago, Ill. Filed Aug. 11, 1921. Serial No. 491,418. 1 Claim. (Cl. 5—58.)



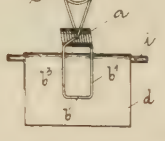
A device of the character described comprising a substantially rectangular mattress-supporting frame, said frame being formed with pairs of longitudinally extending guide slots in the sides thereof adjacent to their ends and with an opening through each side between the outer end of each guide slot and the adjacent end of the frame, a pair of normally upright end members, a pair of brackets carried by each end member and provided with arms adapted to straddle the slotted end portion of the frame, a guiding and retaining member carried by each bracket arm and partly disposed in the adjacent guide slot, whereby each end member is pivotally and slidably attached to the mattress-supporting frame, and a locking member carried by each bracket arm and adapted to be moved at will into engagement with the adjacent second named opening through the mattress-supporting frame when the end member is in upright position to prevent movement of the end member relatively to the mattress-supporting frame.

1,418,542. MACHINE FOR HARVESTING RICE AND THE LIKE. GEORGE I. DILL, Little Rock, Ark. Filed May 24, 1920. Serial No. 383,946. 11 Claims. (Cl. 56—19.)



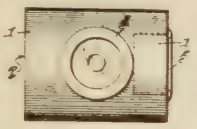
1. In a machine for harvesting rice and the like, means for stripping the heads from the standing grain, comprising a rotary reel provided with a series of teeth arranged spirally in the direction of the length of the reel, and a hood in which the reel is enclosed, said hood having a front opening located at its lower portion and of sufficient size to permit the entrance of the heads on the standing grain into the hood and exposing such heads to the direct stripping action of the teeth.

1,418,543. CLOTHES CLIP. HANS DORESCH, Ludwigsburg, Wurttemberg, Germany. Filed Mar. 16, 1920. Serial No. 366,433. 1 Claim. (Cl. 24—139.)



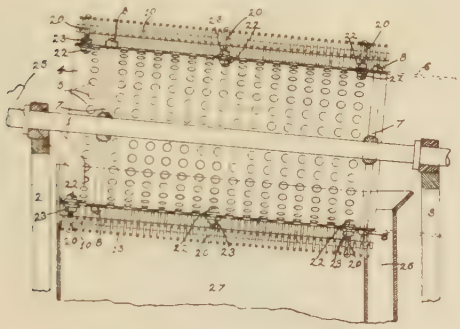
A clothes clip formed of a single piece of wire, comprising a helical coil, two jaws joined to opposite ends of said coil, each comprising a downwardly directed limb springing from one of the terminal convolutions of said coil at a point vertically below the coil axis, a horizontal limb, substantially parallel with the coil axis terminating below the other terminal convolution; and a limb bent upwards from said horizontal limb, said upwardly bent limbs terminating at opposite sides of the coil, and two handles joined to said upwardly bent limbs respectively, each of said handles having a shank extending alongside said coil from a point near one end thereof to a point near its middle, and bent upwards from the last mentioned point, said handles diverging from each other above the coil and their shanks alongside the coil being adapted to serve as fulcra enabling the jaws to be bent apart by means of said handles.

1,418,544. MECHANIC'S LEVEL. JOHN F. DODGE, Hazleton, Pa. Filed Sept. 30, 1920. Serial No. 413,908. 2 Claims. (Cl. 33—211.)



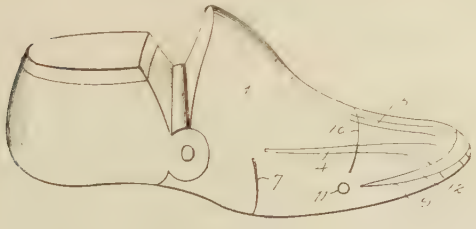
1. A level of the character described, comprising a body having a horizontal bottom base, a box level in the top of the said body in parallelism with the horizontal base and an end base at a perfect right angle to the bottom base and a box level located on the other end of the body in parallelism with the opposite end base and at right angles to the other aforesaid level.

1,418,545. SCREEN FOR SAND AND GRAVEL. HORATIO S. EARLE, Detroit, Mich. Filed Dec. 30, 1918. Serial No. 268,917. 3 Claims. (Cl. 83—56.)



1. A screen fabric comprising a series of circular wire strands, a series of angle bars extending transversely of the wire strands and having equi-distantly spaced seats therefor, the seats being formed by providing apertures in each leg of the angle adjacent the junction point thereof, the metal between the apertures at the junction of the two legs providing a lug adapted to be bent over and hold the strand in its seat, each strand having an outwardly bent portion for seating in the bar, the relationship of the bars and strands being such that the bar is positioned outside the area circumscribed by the inner face of the wire strands.

1,418,546. SHOE LAST. ERNEST A. EASTMAN, Portsmouth, Ohio. Filed Sept. 13, 1920. Serial No. 409,877. 11 Claims. (Cl. 144—309.)

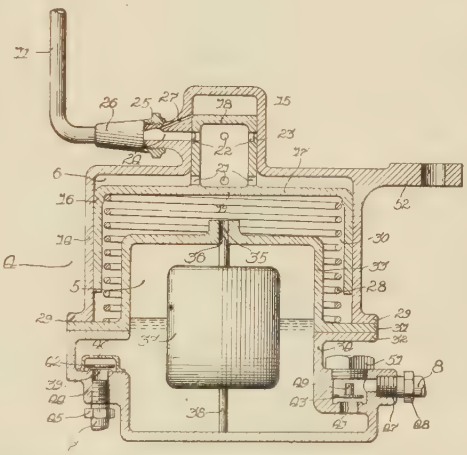


1. The herein described method of altering wooden objects, wherein a shim is driven into one of two kerfs, the inner ends of which approach into approximate relation one to the other, characterized by providing a hole in the body in juxtaposition to the approaching ends of the kerfs by which the resistance to flexing action of the attached portion of the section defined by the kerfs is decreased and incidental splitting of the body minimized.

1,418,547. TREATMENT OF MATERIALS CONTAINING COAL. EDWIN EDSER, HENRY LIVINGSTONE SULMAN, and FRANK BUTLER JONES, London, England, assignors to Minerals Separation North American Corporation, New York, N. Y. Filed Nov. 12, 1920. Serial No. 423,610. 3 Claims. (Cl. 83—85.)

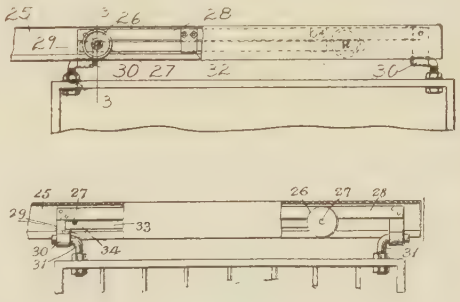
1. A process of concentrating impure coal containing good coal, bone coal, and gangue, which consists in subjecting the material to froth-flotation separation with a soluble frothing agent to yield a concentrate relatively high in pure coal and subjecting the remaining pulp to further froth flotation with a frothing agent which includes an insoluble selecting agent to yield a concentrate relatively high in bone coal.

1,418,548. FUEL-FEED SYSTEM. FRANCIS E. EDWARDS, Crystal Lake, Ill., assignor to Stromberg Motor Devices Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 6, 1921. Serial No. 435,347. 12 Claims. (Cl. 103—67.)



2. In a fuel feed system for internal combustion engines, a pumping chamber for pumping the fuel from the tank or other source of supply to the carburetor of the engine, an impulse pump adapted for connection to one of the cylinders of said engine, said impulse pump producing compressions and rarefactions in the body of air in said pumping chamber, and means in said impulse pump for exposing differential areas to the different pressure pulsations from cylinder.

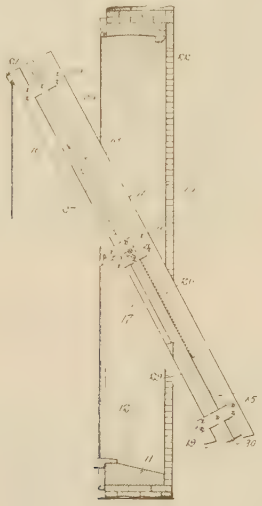
1,418,549. DOOR HANGER. FRANCIS K. FASSETT, Dayton, Ohio. Filed June 22, 1914, Serial No. 846,450. Renewed Oct. 25, 1921. Serial No. 510,290. 6 Claims. (Cl. 16—103.)



1. In a door hanger, a track, wheels arranged to roll thereon, said wheels having axles, a link mounted on the axles for the purpose of connecting the wheels together, the apertures for the axles being bored so near the upper

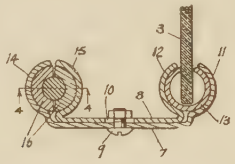
edge of the link that lateral slots are formed which expose narrow portions of the axles but enclose enough thereof to support the link, and a rider resting on said exposed portions.

1,418,550. WINDOW. JAMES A. FENTRESS, Norfolk, Va. Filed July 23, 1921. Serial No. 487,101. 6 Claims. (Cl. 20—45.)



1. A window including a main frame, a sash frame mounted for swinging movement within said main frame, sashes slidable within said sash frame, and weather strips carried by said sash frame and disposed between adjacent faces of said sashes for engagement with the main frame to provide a weather-tight fit between said frames.

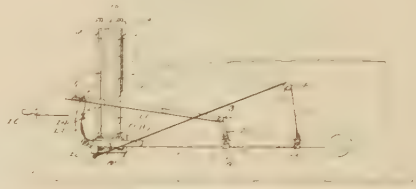
1,418,551. BRACKET. GERALD W. FERREL, Kalamazoo, Mich. Filed Mar. 16, 1921. Serial No. 452,689. 2 Claims. (Cl. 296—95.)



2. A bracket consisting of a pair of bracket members disposed side by side and provided with laterally projecting coacting clamping jaws at one end adapted to engage a support, and laterally projecting coacting socket members at their other ends, a clamping block disposed between said socket members, and an arm engaging said clamping block and provided with a nut engaging the socket whereby the arm is secured to the bracket and the bracket jaws are clamped upon a support.

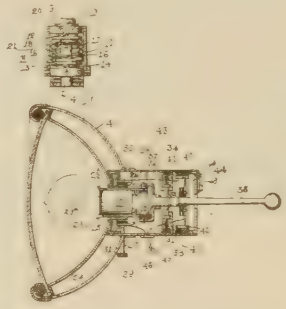
1,418,552. LAPPING MACHINE. JAMES Y. FIELDS, Durham, N. C., assignor of one-half to Thomas Y. Milburn, Durham, N. C. Filed Mar. 14, 1922. Serial No. 543,630. 4 Claims. (Cl. 19—164.)

1. In a lapping machine, calender rolls mounted for movement toward and away from each other, a lever oscillatably mounted in proximity to the calender rolls, means for communicating the motion of the calender rolls as they approach or recede with relation to each other, to the lever, including means for starting and stopping the driving mechanism, a starting lever for controlling the last mentioned means, a latch for holding the starting lever while the driving mechanism is operating, a link having a slot near one end, a pin on the latch extending into the slot of the link, means for connecting the link to the first mentioned lever, a flexible element operating over a pulley and



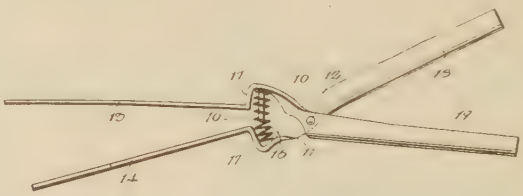
having one end connected to the first mentioned lever and the other end connected to the latch whereby a pull on the flexible member will oscillate the latch and release the starting lever.

1,418,553. SEARCHLIGHT APPARATUS. HENRY O. FLETCHER, Bridgeport, Conn. Filed Oct. 20, 1919. Serial No. 331,895. 14 Claims. (Cl. 240—7.)



3. In combination, a turntable lamp, means for lighting and extinguishing said lamp, and means actuable by a continuous movement to actuate said first means to light and then to turn said lamp.

1,418,554. IMPLEMENT FOR REMOVING SEPARATORS FROM STORAGE BATTERIES. ERNEST ADOLPH FOETISCH, Albuquerque, N. Mex. Filed Mar. 16, 1921. Serial No. 452,752. 4 Claims. (Cl. 29—84.)

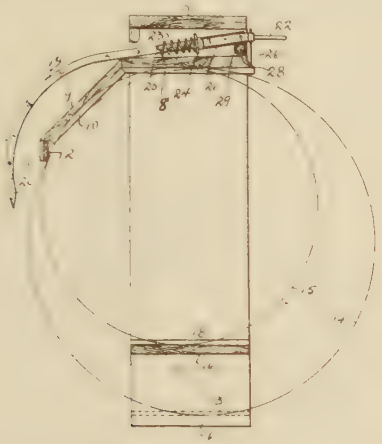


1. An implement for removing separators from storage batteries comprising a pair of crossed pivoted shanks, having their extensions at one side of their pivot in the form of longitudinally elongated flatwise opposing clamping blades of rectangular shape, said blades having shoulders limiting their movement into a battery cell, and a spring between the blades protected by said shoulders.

1,418,555. EJECTOR FOR RECORDS. HERMANN FOLKES, Brooklyn, N. Y. Filed July 19, 1921. Serial No. 485,876. 3 Claims. (Cl. 211—16.)

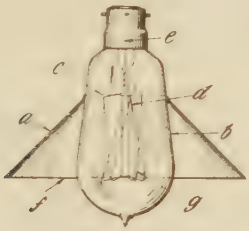
1. An ejector for record cabinets comprising a rod, an open thimble slidable upon said rod, a thimble transverse

of and secured to said first mentioned thimble, a rod passing through said second thimble and having its inner



end curved and recessed and a spring upon said rod and adapted to be compressed when said rod is moved outward.

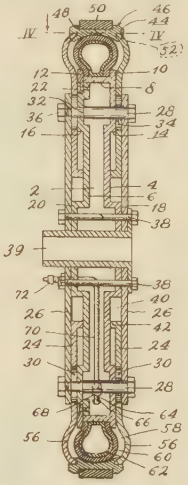
1,418,556. REFLECTOR. ARTHUR GRAHAM FRANCE, London, England. Filed May 17, 1920. Serial No. 382,077. 1 Claim. (Cl. 240—103.) Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



In combination with an electric filament lamp, an opaque reflecting member arranged laterally on a level with the lighting source, and having its upper edge arranged closely around the lighting source, said reflecting member being of hollow truncated conoidal form, and having a matt lustrous surface formed by dull plating the surface after sand-blasting the same.

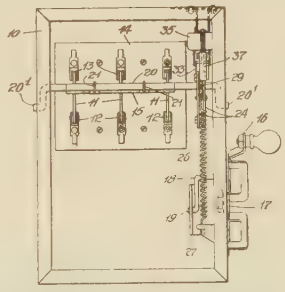
1,418,557. VEHICLE WHEEL. WARREN S. GAUNTT, St. Louis, Mo., assignor of one-half to Elbert R. McCormick, Jackson, Mo. Filed July 20, 1920. Serial No. 397,685. 1 Claim. (Cl. 152—35.)

A wheel consisting of a hub, two internal circular members spaced apart and mounted upon said hub, a rim on one of said circular members, a resilient tire mounted upon said rim, concentric annular projections on said circular members, a pair of circular plates slidably engaging the outer annular projections and having inwardly extending flanges slidably engaging the two internal circular members, a pair of disks mounted on the hub and bearing against said circular plates and the inner annular projections of the internal circular members, means rigidly but removably uniting the hub, the internal circular members and said disks, bolts extending through relatively large openings in the plates and uniting the internal circular members and the disks near their peripheries, a rim secured to the peripheries of the circular plates and forming in conjunction therewith and with the rim of the internal circular member an annular chamber in which the



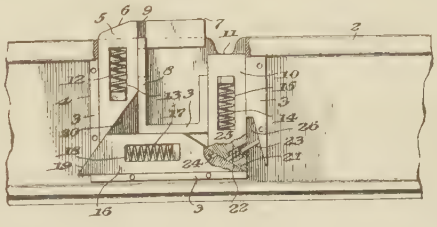
resilient tire is disposed, and a flexible tire surrounding the outer rim of said chamber.

1,418,558. QUICK-BREAK SWITCH MECHANISM. BENJAMIN E. GETCHELL, Plainville, Conn., assignor to The Trumbull Electric Mfg. Co., Plainville, Conn., a Corporation of Connecticut. Filed Apr. 26, 1920. Serial No. 376,803. 20 Claims. (Cl. 200—74.)



1. In a quick break switch mechanism, a pivoted switch blade, a pivoted crank, a bar pivoted to swing on a radius materially greater than the length of said crank arm, a connection between said bar and said switch blade, a hinge connection between said bar and said crank, a spring connected to said hinge connection, a latch for said hinge connection and means for releasing said latch.

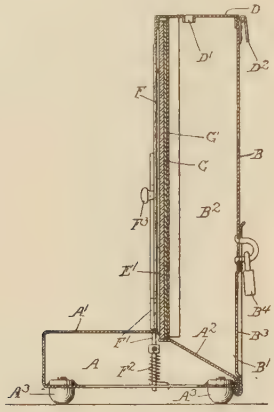
1,418,559. BRIDGING DEVICE FOR RAILWAY CROSSINGS. GEORGE J. GIANNACOPOULOS, Pittsburgh, Pa. Filed Dec. 23, 1921. Serial No. 524,382. 3 Claims. (Cl. 246—273.)



1. In a bridging device for railway crossings, the combination with a depressible abutment, of a bridging

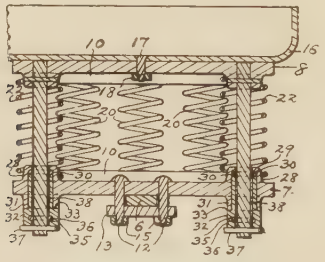
device, a transmitting slide actuated on the depression of the abutment and adapted for elevating the bridging device, and a spring-actuated locking device for holding the bridging device in elevated position until the car wheel has passed thereover.

1,418,560. VENDING RECEPTACLE. FRANK R. GREENE, Chicago, Ill. Filed Mar. 24, 1919. Serial No. 284,807. 2 Claims. (Cl. 211—7.)



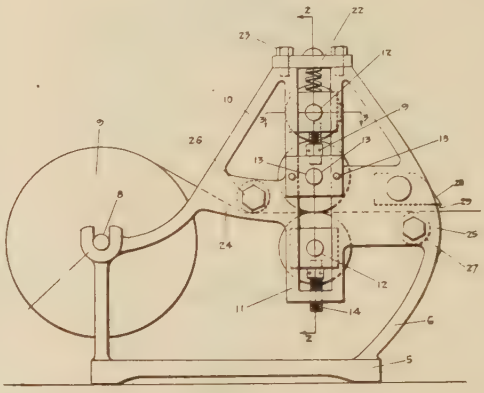
1. A vending receptacle comprising a base member, a housing projecting from one side thereof, containing a plurality of separate vertically disposed package receiving chambers adapted to hold stacks of superposed packages, the floor of each chamber being downwardly and rearwardly inclined, the housing covered at the top by a curved rigid closure, closing the top of each of the package chambers and doors pivoted on the housing wall and yieldingly closing the front side of the chambers.

1,418,561. SPRING SEAT. HATTIE E. GYNN, Cleveland Heights, Ohio. Filed Oct. 26, 1920. Serial No. 419,650. 4 Claims. (Cl. 155—51.)



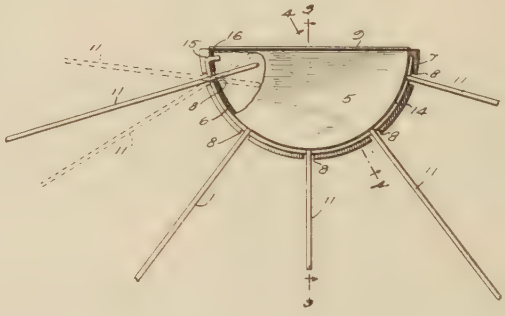
1. In a spring-seat, two vertically spaced and substantially horizontal opposite plates, springs supporting the upper plate from the lower plate, and two substantially vertical guide-members spaced circumferentially of the space between the central portions of the plates and extending from the upper plate to and through the lower plate and depressible with the upper plate independently of the lower plate, the lower plate being provided at each guide-member with a substantially vertical tubular member which is formed at the inner face of and on the lower plate and forms an upwardly projecting annular flange which surrounds said guide-member and is provided internally with a downwardly facing annular shoulder, and anti-friction balls internally of said flange-forming member, said balls acording lateral bearing to said guide-member and arranged under and overlapped by said shoulder.

1,418,562. COMBINED ROLL-PAPER HOLDER AND PRINTER. JORGEN I. HAASE, Towson, Md., assignor to The Wrapping Ad Machine Co., Towson, Md. Filed Feb. 4, 1921, Serial No. 442,428. Renewed Apr. 26, 1922. Serial No. 556,821. 4 Claims. (Cl. 101—226.)



1. A combined roll paper holder and printer comprising a cast frame having a base and spaced side standards, roll paper supporting means mounted in said side standards, a printer attachment mounted in said standards adjacent said paper supporting means and including a printing roller rigidly mounted in the side standards and a type carrying plate mounted on said printing roller, friction rollers adjustably mounted in said standards and in contact with said type carrying roller, an inking roller adjustably mounted in said standards above said type carrying roller and normally in contact with said type plate and guide rollers mounted in said standards to horizontally support the paper between the friction and printing roller.

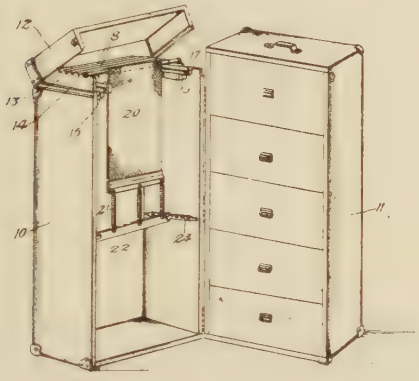
1,418,563. DISPLAY RACK. ASBURY HAMILTON, Brooklyn, N. Y. Filed Jan. 18, 1922. Serial No. 530,126. 1 Claim. (Cl. 211—15.)



A display rack for neckties or the like comprising a substantially horizontal sheet metal head having its forward edge bent downwardly into an upstanding flange, which is provided at its lower end with an outwardly projecting horizontal flange, said flanges being provided at spaced intervals with openings, said upstanding flange having apertures near its ends, a tying wire arranged upon the forwardly projecting horizontal flange in advance of the upstanding flange and having its ends bent inwardly, said inwardly bent ends entering the apertures in the upstanding flange, and arms formed of wire, the rear end of each arm being bent back upon itself forming elongated loops, said loops receiving the tying wire therein, the openings in the upstanding flange and horizontal flange being substantially wider than the diameter of the wire

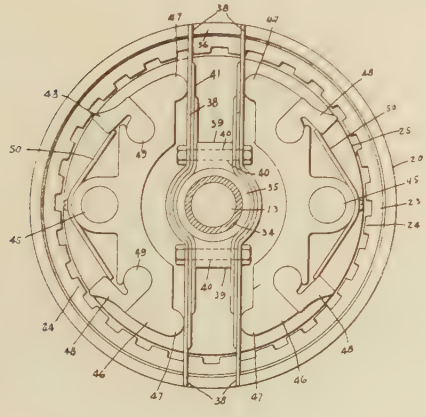
arms, whereby the arms are adapted to be swung horizontally for a substantial distance in either direction, said arms being adapted to be held in the horizontal position by engagement beneath the head when shifted rearwardly, and to be lowered to a substantially vertical position when shifted forwardly.

1,418,564. WARDROBE TRUNK. BEN M. HAMLIN, Chicago, Ill., assignor to Nicholas Diamond, Chicago, Ill. Filed Aug. 9, 1919. Serial No. 316,355. 8 Claims. (Cl. 190—13.)



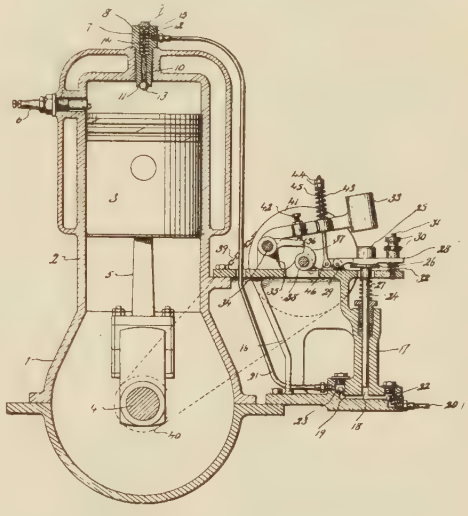
1. In a wardrobe trunk, a pair of rods in the upper portion of one section of said trunk, a series of hangers mounted upon said rods, and a follower provided with a supporting bar adjustably supported at its ends by said trunk above said rods and adapted to bear against the upper portion of the hangers mounted on the same.

1,418,565. DIFFERENTIAL DRIVE MECHANISM. WILLIAM H. HARRIS, Indianapolis, Ind. Filed Mar. 13, 1920, Serial No. 365,457. Renewed Nov. 25, 1921. Serial No. 517,829. 28 Claims. (Cl. 74—7.)



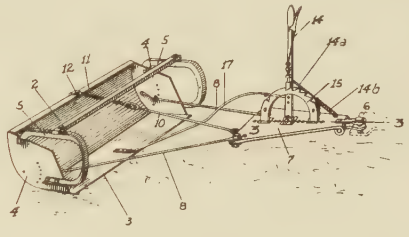
1. In a power transmitting mechanism, a driving member, a driven member enclosed by the driving member and internally toothed, a movable dog for engaging said teeth, and yielding means within the driving member and associated therewith for moving the dog into engaging position and for driving the driven member.

1,418,566. FUEL INJECTOR. STEPHEN A. HASBROUCK, New Haven, Conn. Filed May 1, 1919. Serial No. 294,010. 30 Claims. (Cl. 123—139.)



1. Means for admitting fluid into the cylinder of an internal combustion engine, comprising in part a member having a discharge stroke, and an impact mechanism for actuating said member for its discharge stroke.

1,418,567. CONTROL ATTACHMENT FOR SCRAPERS. GEORGE P. HAYNES, Tracy, Calif. Filed Feb. 7, 1921. Serial No. 442,956. 7 Claims. (Cl. 37—40.)

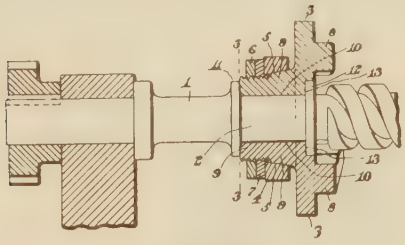


1. A control attachment for ground-bearing scrapers comprising a platform secured ahead of the scraper and supported from the ground, the side plates of the scraper being pivotally connected therewith, a flexible member fixed to and extending from the platform to the back plate of the scraper, and means actuated by a single lever mounted on the platform and connected to the scraper for controlling the movement of the latter in either direction about the pivotal connection of the platform with the scraper as an axis.

1,418,568. CAM-OPERATING MECHANISM FOR GILL BOXES. CHARLES C. HEDRICK, Cambridge, Mass., assignor to Saco-Lowell Shops, Boston, Mass., a Corporation of Massachusetts. Filed June 9, 1921. Serial No. 476,226. 5 Claims. (Cl. 19—129.)

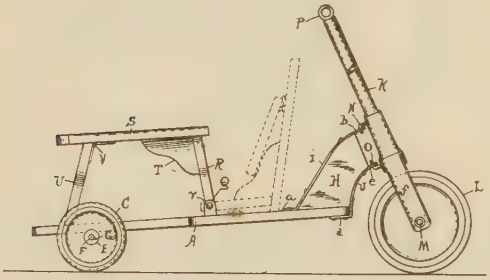
2. Cam operating mechanism for a gill box, consisting of a shaft, a plurality of cam-carrying members seated on said shaft, tapered shoulders on said cam carrying mem-

bers, a tapered sleeve surrounding said shaft and adapted to embrace said tapered shoulders on said cam-carrying



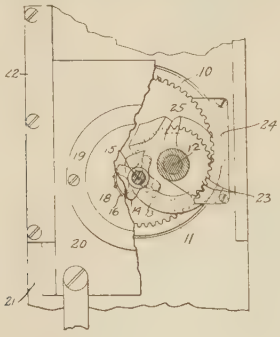
members to hold the same in position on said shaft, and means for locking said sleeve in place.

1,418,569. CHILD'S VEHICLE. WILLIAM H. HERRICK, Indianapolis, Ind., assignor of one-half to Henry B. Miller, Cambridge City, Ind. Filed Aug. 27, 1921. Serial No. 495,980. 2 Claims. (Cl. 280—87.5.)



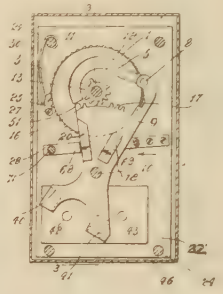
1. A child's convertible vehicle comprising in combination with a base, wheels for supporting the rear end of the base, a steering post hinged forward of said base, a steering wheel mounted in the lower end of said post, a detachable runner secured to said post and extending forward and downward in a curve and then extending rearward under the steering wheel and in contact therewith, runners detachably secured to said base and extending underneath their respective rear wheels, all substantially as shown and described.

1,418,570. FRAMING APPARATUS. CHARLES HORTON, Ridgefield Park, N. J. Filed Feb. 9, 1920. Serial No. 357,271. 7 Claims. (Cl. 88—17.)



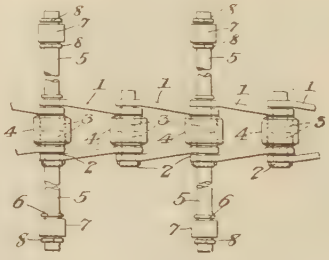
1. In motion picture apparatus, the combination of an intermittent couple having a cam and a follower; a sprocket; and means for simultaneously rotating the sprocket about its axis, to pull the film, and for moving the sprocket bodily, to frame the film, such means including an internal gear, driving means therefor, a spur gear meshing with the internal gear, operative connections between the spur gear and one of the members of said couple and between the other member of said couple and the sprocket, and pivoted means for supporting the spur gear and the sprocket and adapted to be swung on its pivot to cause bodily movements of the spur gear and of the sprocket to frame the film and simultaneously maintain the two gears in mesh for continuing the pulling of the film.

1,418,571. LOCKING DEVICE. AUBREY HOUSTON, Christchurch, and HENRY PERMAIN STEPHENSON, Ashburton, New Zealand. Filed July 26, 1920. Serial No. 399,122. 5 Claims. (Cl. 70—53.)



1. In a device of the kind described, a frame, discs rotatably mounted on said frame, slots or grooves in said discs, pins adapted to enter said slots or grooves, a lever pivoted in said frame from which lever said pins project, means whereby upon operating said lever in either direction the discs are caused to rotate, means whereby when the lever is moved clear of the discs said discs will be rotated and the pins prevented from entering the slots, dials attached to each of said discs, said dials having marks or divisions to coincide with corresponding positions of the slots, and a member against which said lever engages in order to prevent said lever being operated and to prevent the said pins entering said slots until said member has been operated to disenage said lever therefrom, substantially as set forth.

1,418,572. CONVEYER CHAIN FOR CANNING APPARATUS. SIMES T. HOYT and JOHN S. NAPIER, Honolulu, Territory of Hawaii, assignors to Hawaiian Pineapple Company, Limited, Honolulu, Territory of Hawaii. Filed Feb. 9, 1921. Serial No. 443,549. 5 Claims. (Cl. 198—189.)

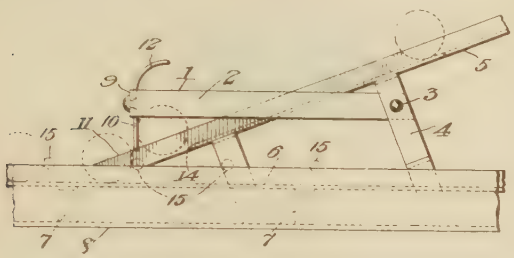


1. In a conveyer, the combination with a track-way, of a conveyer chain comprising a series of contiguous links, pivot pins connecting said links, lateral extensions formed on said pivot pins over-hanging said track-way, said chain in operative position being supported in a plane above the plane of the track-way.

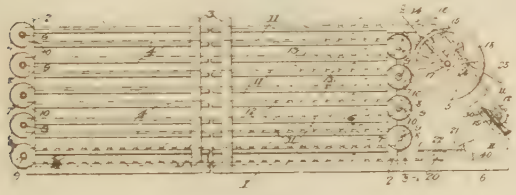
1,418,573. AUTOMATIC GATE FOR DELIVERY CHUTES. SIMES T. HOYT and JOHN S. NAPIER, Honolulu, Territory of Hawaii, assignors to Hawaiian Pineapple Company, Limited, Honolulu, Territory of Hawaii. Filed Feb. 28, 1921. Serial No. 448,716. 8 Claims. (Cl. 193—47.)

1. In an automatic gate or feed-regulating device for cans, the combination with an inclined track, of means

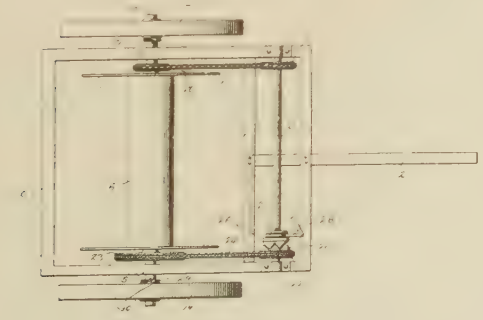
disposed across said track adapted to arrest the forward rolling motion of the cans thereon, and movable means per-



mitting the subsequent vertical dropping of said cans from said inclined track.

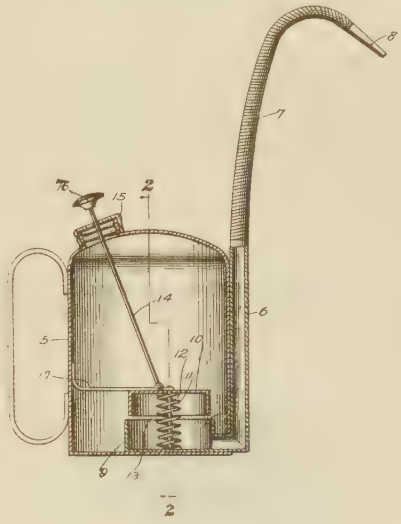
1,418,574. CANNING APPARATUS. SIMES T. HOYT and JOHN S. NAPIER, Honolulu, Territory of Hawaii, assignors to Hawaiian Pineapple Company, Limited, Honolulu, Territory of Hawaii. Filed Mar. 28, 1921. Serial No. 456,147. 8 Claims. (Cl. 198—159.)

1. In an apparatus for cooking or cooling foodstuffs in cans, the combination with a series of flights, each flight comprising a pair of track-ways whereby a double row of cans is progressively elevated, of means for admitting the cans at the bottom of the apparatus, means for discharging said cans at the top of the apparatus, an endless chain conveyor mounted to travel between said pairs of track-ways, laterally disposed projections carried by said chain for engaging the cans on both track-ways to cause the movement of the cans thereon, and means carried at the ends of the track-ways adapted to cooperate with said chain to cause the elevation of said cans from the track-way of one plane to the track-way of the next higher plane.

1,418,575. WIRE-HANDLING MACHINE. LESTER I. IVERSON, MYRON W. IVERSON, and LEON H. IVERSON, Penalosa, Kans. Filed Aug. 17, 1921. Serial No. 492,968. 2 Claims. (Cl. 242—91.)



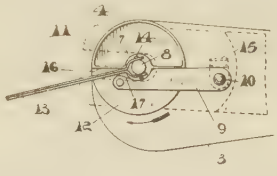
1. A wire handling machine comprising a supporting frame, an axle, traction wheels mounted on the axle to rotate therewith, a reel loosely mounted upon the axle and having a sprocket wheel at one end, a countershaft mounted on the frame and having a sprocket wheel, a chain connecting the two sprocket wheels, a sprocket wheel loosely mounted upon the opposite end of the countershaft, a sprocket wheel on the axle, a chain connecting said last named sprocket wheels, and a clutch member shiftably mounted upon the countershaft and rotating therewith and shiftable into or out of engagement with the last sprocket wheel on said countershaft.

1,418,576. OIL CAN. CLARENCE S. JOHNSTON, Glendive, Mont. Filed Apr. 12, 1919. Serial No. 289,557. 2 Claims. (Cl. 221—51.)



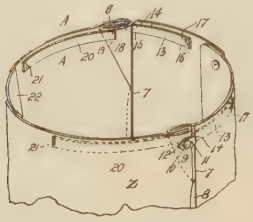
1. An oil can including a body having a bottom, a cup member fixedly mounted on said bottom and in the body, an outlet spout integral with said member and extending along the outer side of the body, an inverted cup member of less diameter than and adapted to move downwardly into the first named cup member, a spring bracket secured within the body for yieldingly supporting the inverted cup member, a spacing spring interposed between and housed within the two cup members, and means extending upwardly through the top of the body for depressing the inverted cup member to force it into the other cup member and expel a portion of the contents of the body through the spout, the two cup members being normally spaced apart to provide an annular inlet to the cup members.

1,418,577. ENDLESS CARRIER. HOWARD M. JOHNSTON, Toronto, Ontario, Canada, assignor to Massey-Harris Company, Limited, Toronto, Canada. Filed July 31, 1920. Serial No. 400,499. 3 Claims. (Cl. 64—5.)



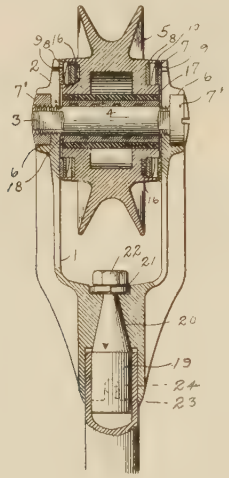
1. An endless travelling carrier, including a roller round which the carrier passes and a supporting frame therefor, provided with a carrier slackening and tensioning device comprising a shaft, on which said roller is journalled, slidable in the frame; disks secured one to each end of the shaft; and a link at each end pivoted to the frame and said disk, the link and disk forming toggle mechanism normally holding said shaft in its carrier tensioning position.

1,418,578. TROUSERS. FRANK KALMAN, Sydney, New South Wales, Australia. Filed Dec. 23, 1920. Serial No. 432,811. 9 Claims. (Cl. 2—143.)



1. In a garment which encircles a portion of the human body, a plait having a substantially Z-shaped cross-section, an elastic strip having one of its ends secured to the garment and its other end secured to the inner surface of said plait, and a second elastic strip having one of its ends secured to the garment and its other end secured to the opposite surface of the plait, said strips being adapted to yieldingly maintain the substantially Z-shaped plait in the garment.

1,418,579. TROLLEY WHEEL. ROBERT C. KISSINGER, Dayton, Ohio. Filed Oct. 26, 1921. Serial No. 510,580. 11 Claims. (Cl. 191—60.)

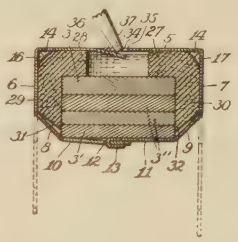


1. The combination with a trolley wheel and mounting therefor including a shaft upon which the wheel rotates, of a bearing bushing in said wheel and a body of insulating material electrically separating the bearing bushing from the main body of the wheel whereby electric current will be prevented from passing from the wheel to the shaft, and conductor brushes engaging the wheel for the conduct of the current independent of the shaft.

4. In a trolley, the combination with a trolley wheel and a mounting therefor, of a trolley pole having a tapered extremity, a like tapered seat within the mounting, a threaded stud at the apex of the tapered extremity and a clamp nut coacting therewith to draw the parts into firm engagement.

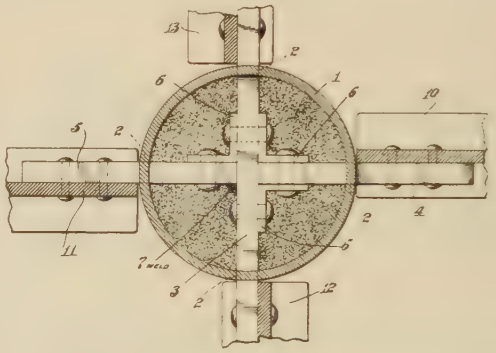
1,418,580. VEHICLE-SPRING LUBRICATOR. CARL H. KRONEWITTER, Indianapolis, Ind. Filed May 24, 1920. Serial No. 383,936. 3 Claims. (Cl. 184—1.)

2. In a leaf-spring lubricator appliance, the combination of an absorbent comprising two side portions having each a beveled end with a top portion connected to the side portions, a casing comprising a top plate and two end members embracing the absorbent, the end members having inclined bottom portions respectively embracing said beveled ends respectively, and two clasp portions extending from said inclined bottom portions respectively, there being sides on said top plate and also sides on each of said end



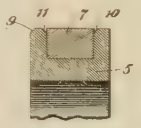
members, the sides on the end members having beveled ends corresponding to and co-operating with the edge portions of said inclined bottom portions respectively.

1,418,581. BUILDING COLUMN. JOHN LALLY, Boston, Mass. Filed Sept. 13, 1921. Serial No. 500,383. 5 Claims. (Cl. 72—75.)



1. A building column comprising a casing provided with slots, tie plates adapted to engage floor beams in said slots with their inner portions abutting within the casing and means for securing the abutting portions together.

1,418,582. PACKING RING. CHARLES LATTA, St. Louis, Mo. Filed Mar. 16, 1920. Serial No. 366,723. 9 Claims. (Cl. 74—109.)

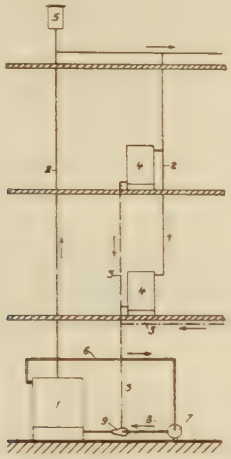


8. A packing, comprising a resilient imperforate split ring, and a second resilient imperforate split ring encircling a part of the first one, said packing being provided with a circumferential oil groove which is wholly out of communication with the inner circumference of the first-named ring between the ends of said groove, and which is bounded on one side by a wall sloping toward the side edge of the packing, and on the opposite side by a wall terminating in a sharp corner at the periphery of the packing operating as a cutting edge to scrape the oil from the cylinder walls into the groove during movement of the piston.

1,418,583. HOT-WATER HEATING SYSTEM. ALEXANDER RUDOLF MAXIMILIAN LINCKE, Zurich, and OTTO LINCKE, Oerlikon, near Zurich, Switzerland. Filed Mar. 30, 1921. Serial No. 457,138. 1 Claim. (Cl. 237—63.)

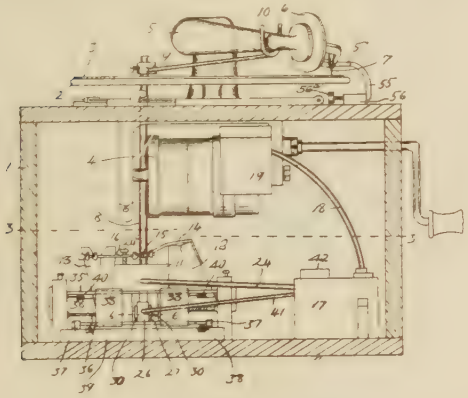
A hot water heating system, comprising in combination, a heating conduit including radiators and a boiler, a separate conduit having a suction branch and a pressure

branch, said suction-branch being connected to said boiler, a motor driven accelating device interposed between the branches of the separate conduit, and an injector con-



necting the pressure branch of the separate conduit to the heating conduit to accelerate the feed of the heating water without destroying the gravity action of the water in the heating conduit.

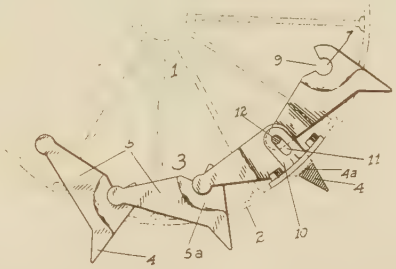
1,418,584. REPEATING PHONOGRAPH. JACOB H. LING, Detroit, Mich. Filed Dec. 29, 1920. Serial No. 433,865. 6 Claims. (Cl. 274—15.)



1. In a phonograph, the combination with the tone arm thereof, of an arm engaging the tone arm for automatically shifting the latter outward, a vertical rod carrying said arm, a pneumatic arranged to lift said rod, a second pneumatic arranged to rock said rod and thereby shift the tone arm outwardly, means for exhausting said pneumatics, means for relatively retarding exhaustion of the rod rocking pneumatic, a valve controlling exhaustion of said pneumatics, and means for operating said valve by said rod in predetermined position of the latter.

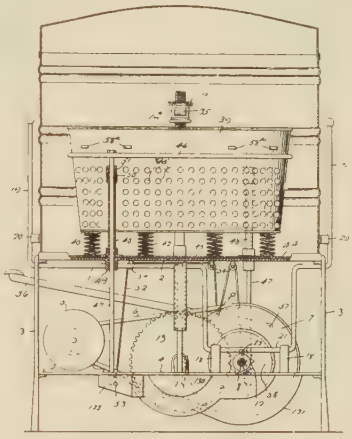
1,418,585. GROUSER ATTACHMENT FOR TRACTORS. JOHN W. LIVERMORE, Fresno, Calif., assignor of one-half to A. V. Lisenby, Fresno, Calif. Filed July 25, 1921. Serial No. 487,275. 5 Claims. (Cl. 301—45.)

3. A grouser attachment for tractor wheels comprising a plurality of independent but connected links, each link comprising a ground engaging member adapted to bear on the rim of the wheel on the outside thereof, flanges projecting from said ground bearing member in the general direction of the rim, said flanges being located outside said rim, bosses on the free ends of the flanges, and sockets provided in the opposite ends of the flanges, the flanges adjacent said bosses having necks smaller than said bosses and the sockets having outlets of a size corresponding to



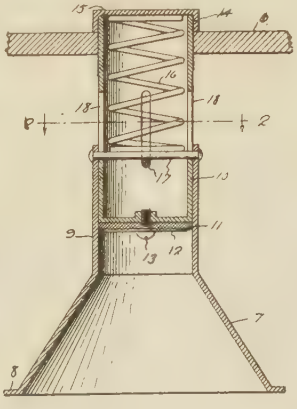
said necks and positioned in a plane offset from the latter when the links are positioned in operative alinement.

1,418,586. WASHING MACHINE. CHARLES F. LOCKHART and EVERETT H. ROBY, Cleveland, Ohio. Filed June 14, 1921. Serial No. 477,464. 10 Claims. (Cl. 68—19.)



1. In a washing machine, the combination with an outer tub, an inner perforated tub therein, springs between the bottoms of the inner and outer tubs, suction cups in the inner tub, and means extending in the space between the sides of the inner and outer tubs to reciprocate the suction cups.

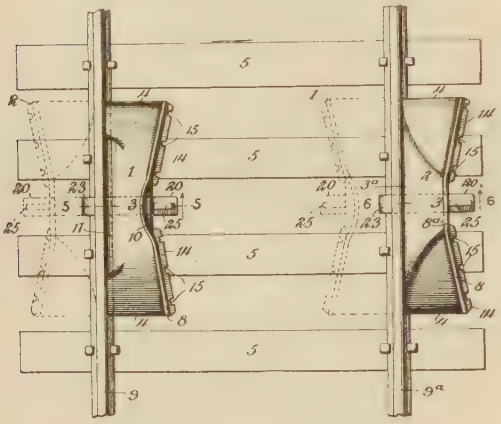
1,418,587. WASHING-MACHINE POUNDER. CHARLES F. LOCKHART and EVERETT H. ROBY, Cleveland, Ohio. Filed July 25, 1921. Serial No. 487,388. 3 Claims. (Cl. 68—5.)



1. The combination with a dasher, of a hollow plunger attached thereto and depending therefrom, the lower end

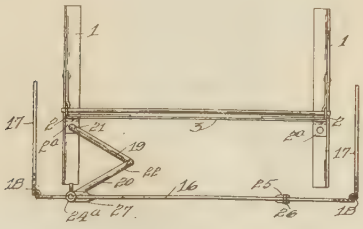
of the plunger being closed, a suction cup having a barrel at the top in which the plunger fits slidably, and a spring enclosed within the plunger and operatively connected to the barrel and tending to force the cup downwardly.

1,418,588. CAR REPLACER. ALBERT N. LYBERGER, Elyria, Ohio. Filed July 19, 1921. Serial No. 485,866. 2 Claims. (Cl. 104—265.)



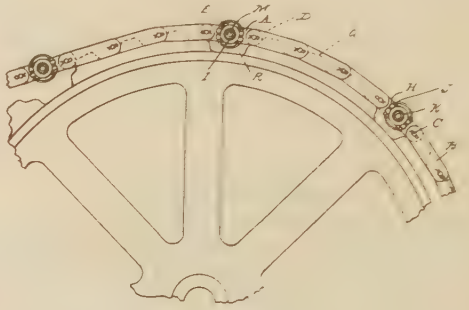
1. In a car replacer, a pair of members adapted to be placed alongside the inner and outer rails of a railway track, each member comprising an elongated body portion having an upwardly inclined track surface or platform extending from each end to the transverse center thereof, the two inclined surfaces meeting forming an apex, said track surface or platform decreasing in width from each end to the apex, and an upstanding wheel guiding flange extending from the outer corners of each end of the body portion along said platform or surface toward the said apex and joining thereat, said flange forming the outer wall of each platform or track surface, the flange on one of said members having at the center an inwardly curved deflector which extends towards the adjacent rail, and the apex of the same member which inclines downwardly toward the rail having a longitudinal drop or fall extending alongside and below the ball or head of the rail, said drop or fall providing a longitudinally extending closure to receive the flange of the wheel and allow said flange to engage the inside of the head of the rail, the other member having its apex higher than the head of its rail and inclined downwardly and inwardly and contacting with the inside of the head of the rail.

1,418,589. BED. GEORGE R. MCALLASTER, Rochester, N. Y. Filed Oct. 7, 1921. Serial No. 506,077. 6 Claims. (Cl. 5—18.)



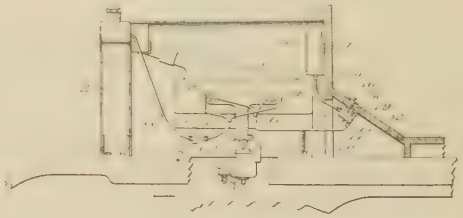
1. In combination with a support and a bed frame movable to a lowered and an upright position on the support, a screening means, and means movably connecting the screening means with the support to permit the screening means to move to one side of the bed frame when the latter is in a lowered position to hide said side of the bed and to move it in front of the bed to cover the bottom of the bed frame when the latter is in an upright position.

1,418,590. CONVEYER. JESSE E. MCBRIDE, Detroit, Mich., assignor to Palmer-Bee Company, Detroit, Mich., a Corporation of Michigan. Filed July 14, 1919. Serial No. 310,832. 18 Claims. (Cl. 198—189.)



14. In a conveyer, a link provided with end portions for pivotal connection with adjacent links, spaced side bars intermediate said end portions, a lug or bracket projecting laterally from one of said side bars constituting a seat or bearing for a load-carrying bar, a load-carrying roller arranged intermediate said spaced side bars, a pin insertable through aligned apertures in said side bars forming the journal for said roller, the inner end of said pin having a transverse slot therein, and a cap for clamping said load-carrying bar to said laterally projecting lug or bracket provided with a flange for engaging the slot in said pin to lock the same from endwise displacement.

1,418,591. ENGINE PRIMER FOR AUTOMOBILES. THOMAS J. MCCARTHY, Newark, N. J. Filed Sept. 6, 1919. Serial No. 322,144. 3 Claims. (Cl. 123—180.)

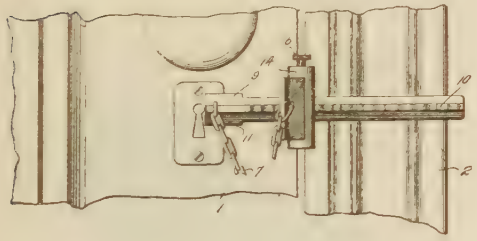


1. A foot-board engine primer for automobiles, comprising an engine having an intake manifold, a footboard on which said primer is mounted, a casing having a chamber provided with an inlet port adapted to be directly connected to a source of liquid fuel to maintain the chamber full of fuel, a vaporizing channel, a passage connecting said chamber and said channel, a spring-pressed valve operating within said chamber to normally close said passage, said valve having a stem extending through the casing and adapted to project above the foot-board, an air inlet intercepting said channel in alinement with said passage and oblique thereto, and a conduit connecting said vaporizing channel with the engine manifold.

1,418,592. SYRINGE VALVE. HOWARD H. MCGEE, Waterbury, Conn., assignor to The Goodyear's India Rubber Glove Manufacturing Company, a Corporation of Connecticut. Filed June 3, 1920. Serial No. 386,188. 11 Claims. (Cl. 251—125.)

11. In combination, an apertured valve seat, a valve having a rocking engagement with said seat to close said aperture, and a tensioned elastic valve casing surrounding said parts and holding them in engagement, whereby the valve may be rocked on its seat to open upon flexure of the casing at the point of engagement.

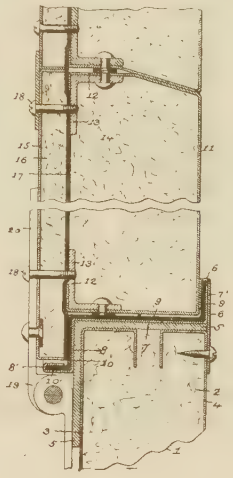
1,418,593. ADJUSTABLE PORTABLE DOOR FASTENER. ROBERT E. MACKELLAR, Ashland, Ohio. Filed Mar. 11, 1921. Serial No. 451,530. 3 Claims. (Cl. 292—295.)



1. In a portable adjustable fastener of the class described, a hook end engaging in the bolt opening of the door casing, said bar having a longitudinal slot, a securing element slidably mounted in said slot, a set screw securing said element in adjusted position, an approximately L-shaped lock arm insertable through the said slide in the lock bar, said lock arm having a slanting notched outer edge with which the securing element engages, a chain connecting the lock arm with the outer edge of the lock bar, said lock bar being horizontally disposed when in position to lock the door, the aforesaid lock arm being longitudinally grooved, and means slidably mounted on the grooved portion of said lock arm for holding same in adjusted spaced relation to a door casing for use on door casings that are flush with the door, for the purposes described.

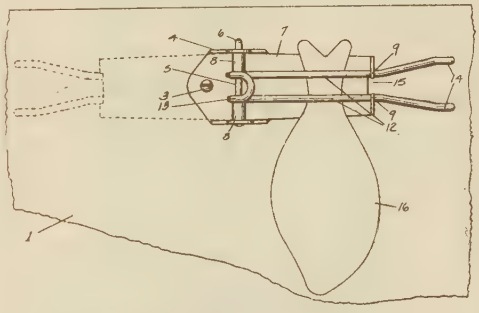
1,418,594. DRYING-OVEN DOOR AND DOORWAY. ARTHUR MAEHLER, Chicago, Ill. Filed Sept. 28, 1921. Serial No. 503,914. 12 Claims. (Cl. 25—132.)

1. In a drying or like oven, the combination of a frame secured in the entry passage of the oven and comprising an inner metal plate fixed in said passage and having an angularly arranged flange, an outer sheet of heat insulating material forming a facing for said plate and flange,



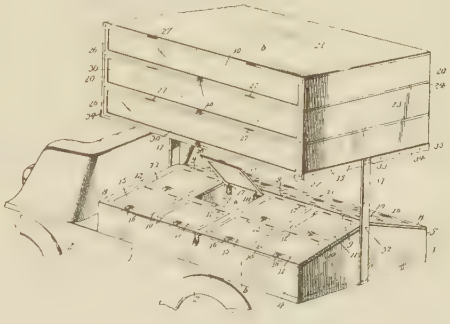
and a hinged door adapted when closed to have sealing contact with said outer sheet.

1,418,595. FISH HOLDER. HERBERT MATTHEWS and ROBERT J. SEATOR, Battle Creek, Mich. Filed Sept. 26, 1921. Serial No. 503,153. 10 Claims. (Cl. 17—10.)



10. In a device of the class described, the combination of a base plate, and a fish holder pivotally mounted on said base plate to be swung from side to side to reverse a fish and support the same while resting upon said plate.

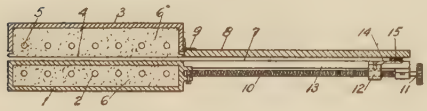
1,418,596. DISPLAY VEHICLE. GEORGE MENSOIAN, Los Angeles, Calif. Filed Dec. 2, 1920. Serial No. 427,840. 2 Claims. (Cl. 296—21.)



1. In a display apparatus, the combination with a vehicle, a receptacle mounted thereon and divided longi-

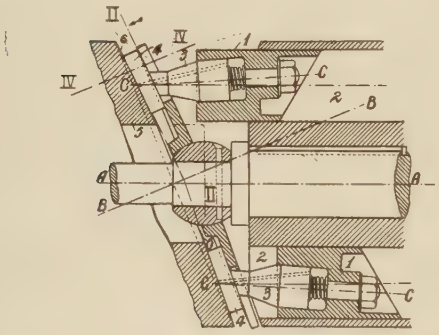
tudinally and transversely into two sets of compartments arranged to display merchandise upon each side of the vehicle, each compartment provided with a hingedly connected glass cover, an elevated display receptacle, and cover for the first mentioned receptacle, means for supporting said elevated display receptacle and cover above and in spaced relation to the first named receptacle.

1,418,597. METHOD OF AND APPARATUS FOR GLUING SHEETS EDGE TO EDGE. GEORGE R. MEYERCORD, Chicago, Ill., assignor to Haskelite Manufacturing Corporation, a Corporation of New York. Filed Feb. 13, 1920. Serial No. 358,454. 5 Claims. (Cl. 144—279.)



1. The method of gluing a plurality of pieces edge to edge which consists in applying glue to the edges to be joined, laying the pieces in contact with each other, pushing the pieces through a yieldable stationary clamping or holding device in a manner to transmit the moving force from each piece to the piece in advance in a direction tending to press together the abutting edges between such pieces, and heating the clamping device to set the glue.

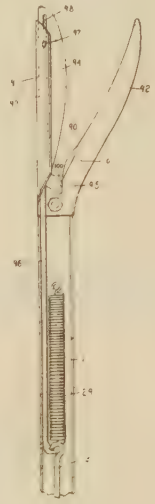
1,418,598. CRANKLESS RECIPROCATING MECHANISM. ANTHONY G. M. MICHELL, Melbourne, Victoria, Australia. Filed Sept. 26, 1921. Serial No. 503,290. 5 Claims. (Cl. 74—14.)



1. In a crankless reciprocating mechanism, an oblique drive plate and reciprocatory shoes, said shoes and plate having respectively plane and slightly convex co-acting surfaces.

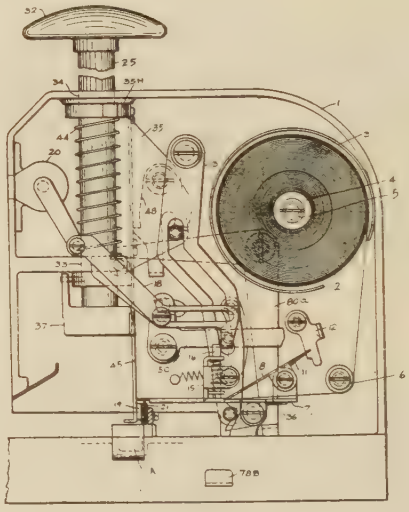
1,418,599. FRUIT PICKER. SELIM A. MICKELS and ANDREW NEWMAN, Oakland, Calif. Filed June 15, 1918. Serial No. 240,195. 2 Claims. (Cl. 30—11.)

1. A horticultural implement including a handle, a fork on the upper end of said handle, a blade guide extending at an angle from the outer edge of one prong of said fork and to the plane of said fork, a shear member in the crotch of said fork extending at an angle corresponding to the angle of said guide, a blade mounted on said guide to reciprocate across the crotch of said fork and to cooperate



with said shear member to cut a tree limb at an angle, and means on said handle for reciprocating said blade.

1,418,600. STAMP-AFFIXING DEVICE. NICHOLAS MILLER, Chicago, Ill. Filed June 2, 1917. Serial No. 172,389. 36 Claims. (Cl. 216—28.)

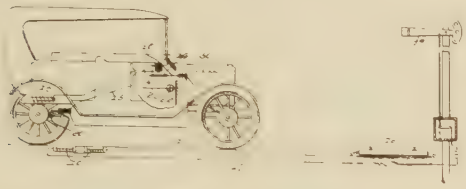


15. In a stamp affixing apparatus, stamp feeding mechanism, a cooperating moistening device, stamp detaching means and means adapted to render the stamp detaching means and the moistening device ineffective when the stamp feeding means is actuated.

1,418,601. SAFETY AUTO CONTROL. ALFRED MINNICK, Newark, N. J., assignor to M-V. All Weather Train Controller Company, Wilmington, Del., a Corporation of Delaware. Filed Jan. 22, 1919. Serial No. 272,552. 2 Claims. (Cl. 246—194.)

1. A system of safety control for vehicles of the explosion motor driven type, having primary and secondary induction coils, the former of which is arranged in the

road-bed and the other on the vehicle, the primary coil being in circuit with a source of energy including a sem-

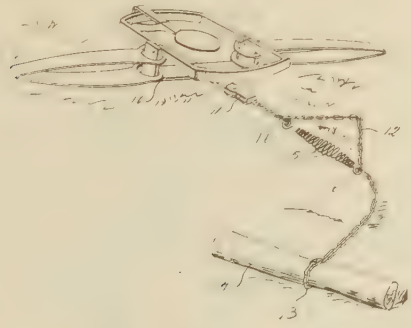


aphore actuated switch, and the ignition circuit of the vehicle motor including a switch actuable by fluctuations in the secondary circuit.

1,418,602. PHOTOGRAPHIC MEASURING DEVICE. GERHARD MOE, Eau Claire, Wis. Filed Aug. 28, 1919. Serial No. 320,506. 3 Claims. (Cl. 33—2.)

1. In combination with a photographic measuring chart, a plurality of heel locating members positioned a predetermined distance from said chart and disposed at right angles to each other, one of said members extending perpendicularly to said chart, substantially as described.

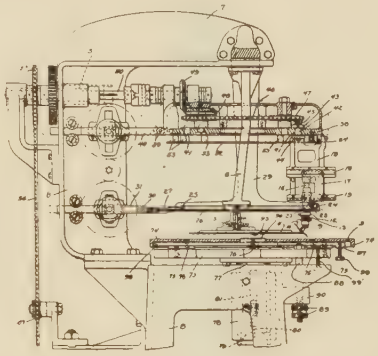
1,418,603. TRAP. EMMET EDWARD MORTIMER, Woodchopper Creek, Territory of Alaska. Filed Sept. 15, 1920. Serial No. 410,532. 1 Claim. (Cl. 43—96.)



Anchoring means for traps comprising a chain, a helical spring having each end portion thereof coiled several times to provide helical loops, the rounds of the coils being spaced from each other to provide an entrance to the inner portion of the coil for the reception of a portion of the chain of the trap.

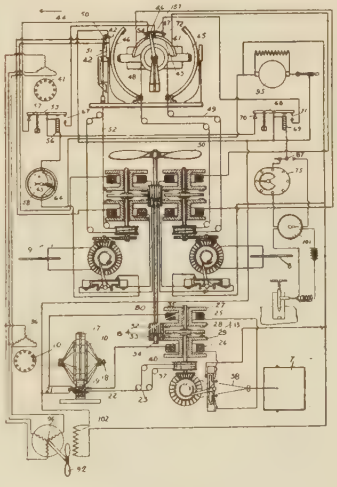
1,418,604. MACHINE FOR CUTTING SOLES. ERNEST L. PATTEN, Malden, Mass., assignor to Wellman Company, a Corporation of Maine. Filed Nov. 7, 1919. Serial No. 336,414. 7 Claims. (Cl. 12—25.)

6. In a machine for cutting sheet material, in combination, a form, a work table, means for shifting the work table relative to the form, a knife, means for moving the knife around the form, power driven devices for operating



the machine, and a manually operable mechanism including a one way clutch ineffective when the machine is driven by power.

1,418,605. AERIAL TORPEDO. LAWRENCE BURST SPERRY, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Dec. 22, 1916. Serial No. 138,485. 35 Claims. (Cl. 244—1.)

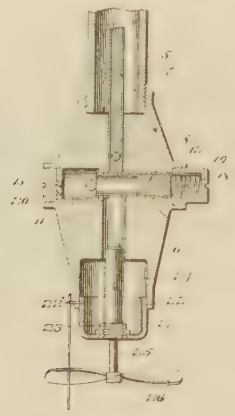


1. In an aerial torpedo, the combination with longitudinal control means, of a gyroscope for normally maintaining said means in an ascending position, a barometric device and means brought into operation by said device and acting through said gyroscope for setting said control means to a substantially horizontal position.

1,418,606. AERIAL TORPEDO OR DROP BOMB. JOHN H. SWAN, U. S. Army, assignor to Newton D. Baker, Secretary of War, trustee. Filed Jan. 9, 1919. Serial No. 270,339. 2 Claims. (Cl. 102—2.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. A bomb, torpedo or like projectile comprising a body member carrying an explosive charge; a hollow elongated member attached to the nose of the body inclosing an instantaneous fuse, consisting of a column of high explosive material forming a continuation of the charge; a firing mechanism secured to the end of the elongated member, comprising a movable firing-pin in alignment with the end of the column of explosive; a detonator slidable between the pin and column, the charge of which is normally out

of alignment with the end of the column; means to move the detonator with the charge between the explosive col-

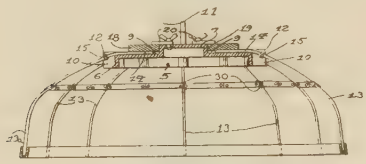


umn and firing-pin; and a spring ejectable means releasable when the bomb is cast from an aeroplane or other aircraft to maintain the parts in normal safe position.

1,418,607. FRICTION COMPOSITION AND PROCESS OF MAKING SAME. WILLIAM ACHTMEYER, Middletown, Conn. Filed Mar. 10, 1921. Serial No. 451,343. 4 Claims. (Cl. 106—7.5.)

1. A brake friction member comprising asbestos impregnated with a condensation produet of phenol and methylene-diphenyldiamine.

1,418,608. BABY NET FRAME. BLESSIE E. AKERS, Thrift, Tex. Filed Mar. 12, 1921. Serial No. 451,860. 2 Claims. (Cl. 5—14.)



1. A device of the character described comprising an annular hub member, a boss projecting from the intermediate portion of said member, the upper surface of said member being provided with a plurality of radiating channels, said channels extending from the periphery of the boss to the periphery of the hub member, said hub member having a recess at the outer end of each channel and having an annular groove in the periphery of said hub member, a wire disposed in said groove and extending across the recesses at the ends of the channels, a plurality of ribs, each of said ribs having one end portion thereof arranged to extend into one of the channels and having an eye adapted to receive a portion of the wire disposed in the groove of the hub member, and means for holding the adjacent end portions of the ribs in the channel in the upper face of the hub member.

1,418,609. ART OF PROTECTIVELY TREATING WOOD AND THE LIKE. ARTHUR ARENT, Des Moines, Iowa, assignor to Arthur Arent Laboratories, Inc., Des Moines, Iowa, a Corporation of Iowa. Filed Nov. 14, 1919. Serial No. 338,088. 15 Claims. (Cl. 99—12.)

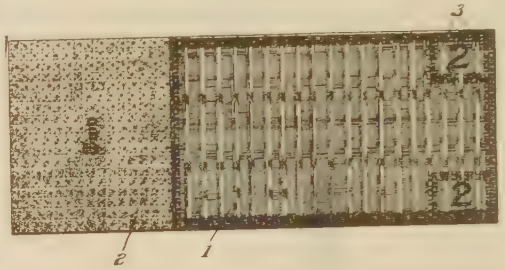
1. The process of protectively treating woody materials which comprises applying thereto a tarry solution of a toxic and fire-retardant metal compound hydrolyzable to yield a water-insoluble compound of the metal.

1,418,610. ART OF PROTECTIVELY TREATING MATERIALS. ARTHUR ARENT, Des Moines, Iowa, assignor to Arthur Arent Laboratories, Inc., Des Moines, Iowa, a Corporation of Iowa. Filed June 9, 1920. Serial No. 387,733. 6 Claims. (Cl. 91—68.)

1. The process of protectively treating materials which comprises applying thereto a solution comprising benzol and antimony trichlorid dissolved therein.

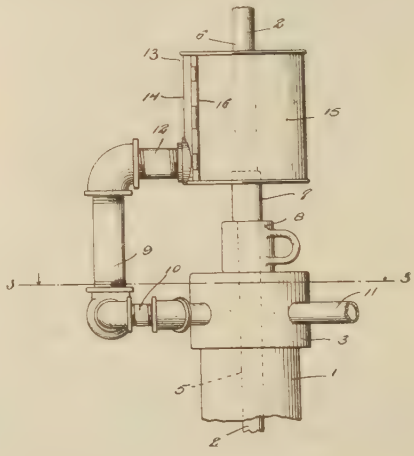
4. A composition for protectively treating materials which comprises a solution of antimony chlorid in benzol.

1,418,611. CURRENCY SERIES. EDGAR E. AUSTIN, Portland, Me. Filed June 4, 1921. Serial No. 475,031. 4 Claims. (Cl. 283—9.)



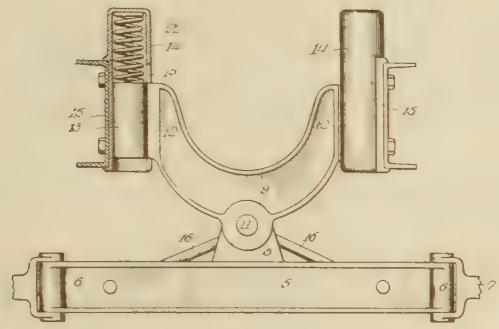
1. A currency series consisting of a plurality of sheets, each sheet having one face thereof provided throughout its entire extent with a background design common to the series, said background being subdivided across the sheet into two juxtaposed contrastingly differentiated sections constituting denominational areas adapted to indicate the denomination of the bill, and said areas varying in extent relative to one another according to the denomination of the bill.

1,418,612. OIL SAVER FOR OIL-PRODUCING WELLS. JERRY L. BEARD, Tulsa, Okla., assignor of one-half to Richard J. Flood, Tulsa, Okla. Filed Aug. 20, 1920. Serial No. 404,719. 1 Claim. (Cl. 166—16.)



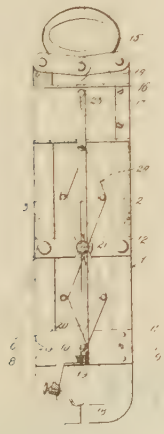
In an attachment for oil wells, a cap provided in its sides with a plurality of openings, pipes secured in said openings, the said pipes being in communication with each other, a receptacle having its axis in alinement with the axis of said cap, rigid tubing connected with the lower end of said receptacle and communicating with the said pipes, the said cap being adapted to be engaged upon the casing of an oil well and the said container to be engaged about the oil well tubing.

1,418,613. AXLE. NAHUM C. BEMENT, Rockford, Ill. Filed Nov. 15, 1920. Serial No. 424,047. 2 Claims. (Cl. 280—112.)



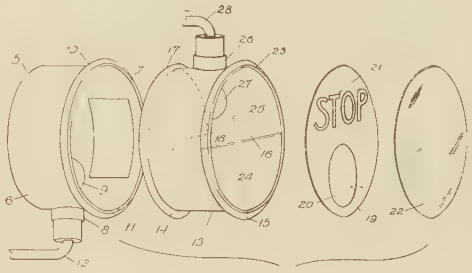
1. An axle for motor vehicles, comprising an I-beam, knuckle joints at the ends thereof carrying wheel supports, a bearing member carried by said axle at the centre thereof, a bolster movably mounted on said bearing, the upwardly extending arms of said bolster terminating in spring brackets, a housing supported on each of said brackets and movable vertically thereon, resilient members positioned within said housing, and the vehicle frame secured to said housing and movable therewith.

1,418,614. RAIL PANTOGRAPH. RUSSELL H. BENNETT, Tucson, Ariz. Filed Mar. 2, 1920. Serial No. 362,754. 3 Claims. (Cl. 33—25.)



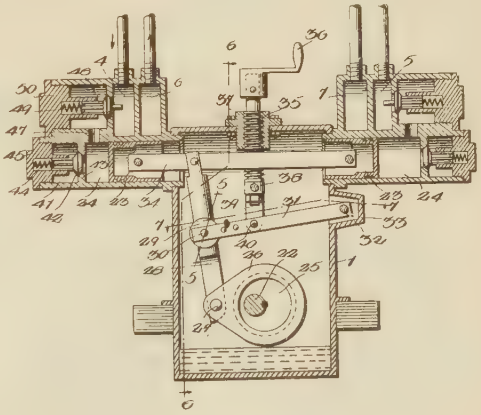
1. In a device for making outlines of an object, a clamp comprising pivoted jaws adapted to embrace said object, means securing the upper ends of said jaws whereby the clamp may be lifted, said means expanding said jaws upon lifting the clamp therewith and contracting said jaws upon the arrest of movement of said clamp by said object, means on one of said jaws for arresting movement of and supporting the clamp on engagement with said object, and a tracing and marking mechanism mounted on said clamp.

1,418,615. SIGNAL LAMP. ALVIN C. BLADES, Crisfield, Md., assignor of one-third to C. E. Collins and one-third to C. C. Ward, both of Crisfield, Md. Filed Feb. 13, 1922. Serial No. 536,083. 4 Claims. (Cl. 40—132.)



1. The combination of a tail light casing for motor vehicles, said casing having an open face, with a signal casing provided with means for dividing said signal casing into two longitudinal chambers, means in one of said chambers for receiving a signal light, and means for readily attaching and detaching said signal casing to the open face of said tail light casing.

1,418,616. VARIABLE-STROKE HYDRAULIC PUMP. CHARLES LEON BOISSET, New Orleans, La. Filed Feb. 10, 1921. Serial No. 444,026. 2 Claims. (Cl. 103—85.)

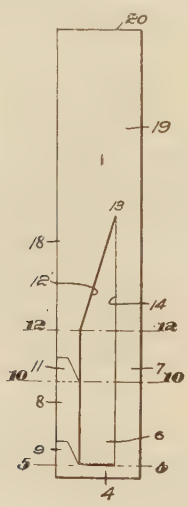


1. In a pump, a connecting rod between pistons in two cylinders; a uniformly driven engine shaft with an eccentric and strap, a rocker bar pivoted between the connecting rod and strap, a fulcrum slidable on the bar, comprising a piece with trunnions; a radius link pivoted to the piece at the trunnions, and a screw shaft with a swivel yoke having strap connection to the link.

1,418,617. FASHIONED HOSIERY AND METHOD OF MAKING THE SAME. GEORGE P. BOSWORTH, Central Falls, R. I., assignor to Hemphill Company, Central Falls, R. I., a Corporation of Massachusetts. Filed Aug. 12, 1919. Serial No. 317,067. 19 Claims. (Cl. 66—4.)

17. A fashioned stocking having a strip of fabric formed by reciprocating knitting and including toe and heel pockets and a calf portion fashioned by varying the

number of wales upon opposite sides of the leg, and a continuous wale of loops extending along the edges of

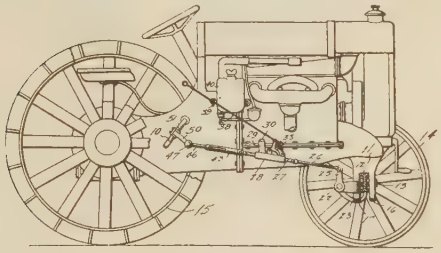


said strip, said loops being substantially longer than the loops composing said strip.

1,418,618. METHOD OF CONDITIONING FERTILIZER. CHARLES A. BUTT, Atlanta, Ga. Filed June 17, 1921. Serial No. 478,284. 4 Claims. (Cl. 71—9.)

1. The method of treating fertilizer, which consists in generating nascent hydrogen in fertilizer material containing a nitrogen compound capable of reacting with nascent hydrogen to produce ammonia, whereby the ammonia will combine with any free acid in the material.

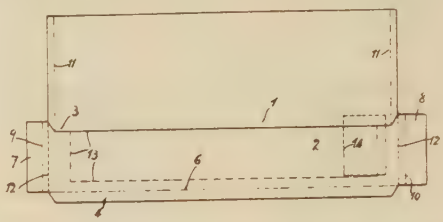
1,418,619. AUTOMATIC CLUTCH RELEASE. CLARENCE E. CAIN, Wilmer, Tex. Filed Feb. 26, 1921. Serial No. 448,279. 6 Claims. (Cl. 180—82.)



1. In an automatic clutch release attachment, a lever, means for supporting the lever in position to be operated by the axle of the tractor, a swinging arm connected with the lever, a clamp for engagement with the clutch pedal of a tractor, and a connection between the arm and the clamp.

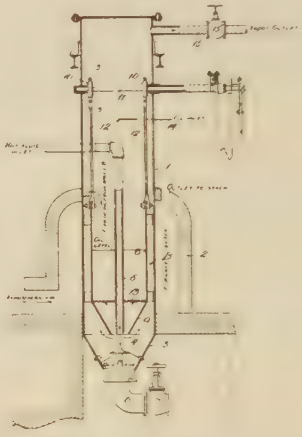
1,418,620. ENVELOPE. HERMANN CLARE, Berne, Switzerland. Filed Dec. 18, 1918. Serial No. 267,389. 1 Claim. (Cl. 229—71.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

An envelope composed of a sheet folded to form a front and a back portion, the latter being of greater length than the former and the front portion having adhesive on the under side to attach it to the contents of the envelope, a foldable adhesive flap on the end of the back portion and foldable adhesive flaps on the lateral edges of that part of the back portion which extends beyond the edge



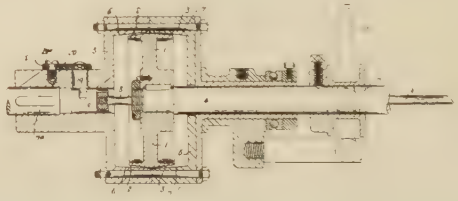
of the front portion, weakening lines being provided along the sides and bottom of the envelope to facilitate its opening.

1,418,621. APPARATUS FOR TREATING PETROLEUM. LINCOLN CLARK, Pasadena, Calif. Filed Mar. 14, 1918. Serial No. 222,733. 6 Claims. (Cl. 196—27.)



2. An apparatus for fractionating oils or treating residuums, comprising a furnace, a chamber disposed therein having its lower end extended below the heat zone of the furnace, a shell suspended within said chamber and diametrically smaller than said chamber to provide an annular passageway, said shell formed with a conical end, a heated gas conducting pipe extending centrally of the shell, a deflector in said chamber and disposed in line with the opening of said pipe, and a valved vapor line leading from said chamber.

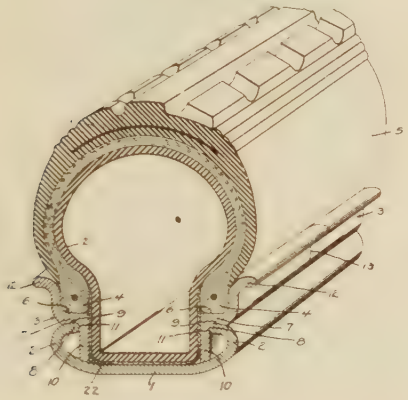
1,418,622. REVERSIBLE PROPELLER. DAVID COCKBURN, Cardonald, near Glasgow, and EDWARD MCDONALD, Paisley, Scotland. Filed Dec. 23, 1921. Serial No. 524,755. 3 Claims. (Cl. 170—163.)



1. In a reversible propeller, in combination, a driving shaft, a tubular propeller shaft, a double female clutch member on said driving shaft, a double male clutch member fitted on said propeller shaft and adapted to perform axial movements in relation to said female clutch member, a boss on said propeller shaft, propeller blades mounted to perform angular shifting movements on said

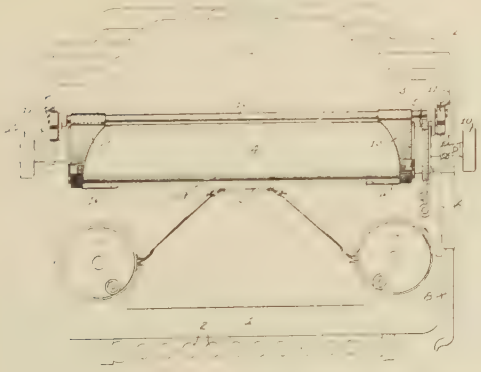
boss, a reversing rod accommodated in the bore of said tubular propeller shaft and operatively connected at one end to said blades and an anchorage for the other end of said rod, said anchorage being adjustably mounted in said female clutch member.

1,418,623. TIRE CASING AND SUPPORTING MEANS THEREFOR. JOHN PARKS COE, Hastings-on-Hudson, N. Y., assignor to Morgan & Wright, a Corporation of Michigan. Filed Nov. 7, 1921. Serial No. 513,229. 10 Claims. (Cl. 152—20.)



1. A transversely split auxiliary side-piece for clincher rims having a substantially cylindrical portion, an inwardly extending flange adapted to close a tire bead groove of the clincher rim, and an outwardly extending tire retaining flange, the auxiliary side-piece being adapted to support and retain one side of a tire casing having inextensible beads when mounted on a clincher rim.

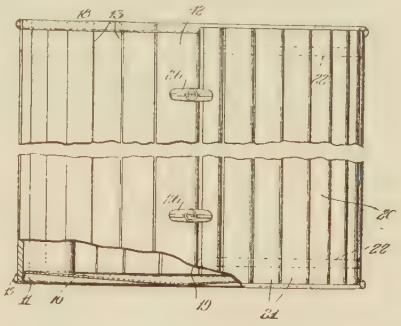
1,418,624. RIBBON ATTACHMENT ESPECIALLY ADAPTED FOR TYPEWRITERS. MALCOLM L. COSSITT, Alameda, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev., a Corporation of Nevada. Filed Sept. 3, 1921. Serial No. 498,213. 9 Claims. (Cl. 197—126.)



1. In a ribbon attachment, adapted for typewriters, an impression ribbon having secured at each end a clip the outer portion of which is angularly folded at relatively opposite angles in the two clips, to form a hook and is perforated in the fold crease.

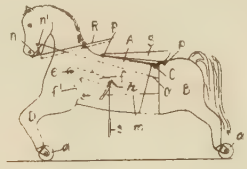
1,418,625. WASHING MACHINE. FORREST J. COUCH, Rochester, N. Y., assignor to Clark, Cadle, Harmon Corporation, Rochester, N. Y., a Corporation of New York. Filed Dec. 16, 1920. Serial No. 431,235. 5 Claims. (Cl. 217—56.)

1. In a washing machine, a container for articles to be washed comprising a peripheral wall of staves discontinued at a portion of the periphery to leave an opening, end walls having outwardly extending flanges adjacent the peripheries thereof forming seats for the ends of said staves and having portions on said flanges ex-



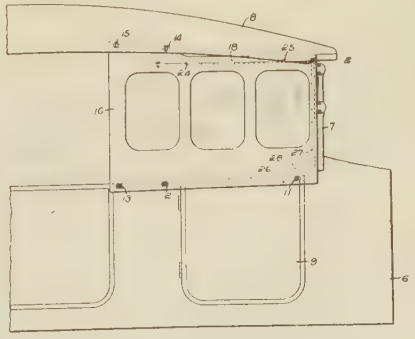
tending around and embracing the ends of said staves to hold the same in position on said seats, and an outwardly removable closure for said opening supported at its ends on said seats and provided with means for removably securing the same in position thereon.

1,418,626. TOY HORSE PROPELLED BY THE RIDER. THOMAS COWBURN, Churchdown, England. Filed Aug. 25, 1920. Serial No. 406,035. 2 Claims. (Cl. 208—42.)



1. In a toy horse adapted to be propelled by the rider putting his weight alternately on the saddle and stirrups, the combination with a horse body having a front section and a rear section, a three-part hinge device connecting said sections, said hinge device having one member secured to the rear section, one member secured to the front section, and an intermediate member hinged to the first-named member to turn about a vertical axis and to the last-named member to turn about a horizontal axis, a lever pivoted to the front section and connected to the rear section, and stirrups connected to said lever.

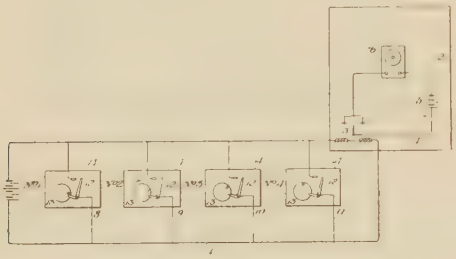
1,418,627. DOOR CURTAIN FOR VEHICLES. THOMAS L. COWLES, Bridgeport, Conn., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn., a Corporation of Delaware. Filed Mar. 12, 1918. Serial No. 221,909. 6 Claims. (Cl. 296—139.)



1. In a vehicle, the combination of a door, a door-curtain constituting an upward prolongation of said door,

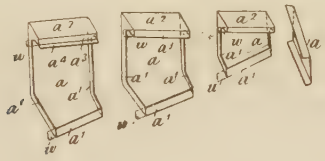
and door-curtain reinforcing means including a generally horizontal reinforcing member having two arms, one of which extends lengthwise of the upepr edge of said door and the other transversely thereof, and a generally vertical reinforcing member having its upper end detachably secured to the transverse arm of said horizontal member.

1,418,628. ALARM SYSTEM. FRANKLIN E. CRAWFORD, Winchester, Mass., assignor to Bankers Electric Protective Association, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 12, 1918. Serial No. 249,376. 5 Claims. (Cl. 161—20.)



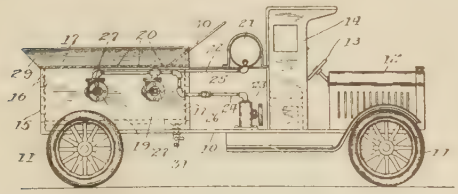
1. In an electric signal system of the kind described, an alarm station, a remote controlling station, a normally closed controlling circuit therebetween, and automatically operating means at the controlling station normally tending unless mechanically restrained, to cause the circuit to be broken and the alarm to be given.

1,418,629. SECTIONAL HULL CONSTRUCTION. FREDERICK S. CROSSLEY and FREDERICK W. CROSSLEY, Blackrock, Dublin, Ireland. Filed Feb. 3, 1922. Serial No. 533,778. 5 Claims. (Cl. 114—79.)



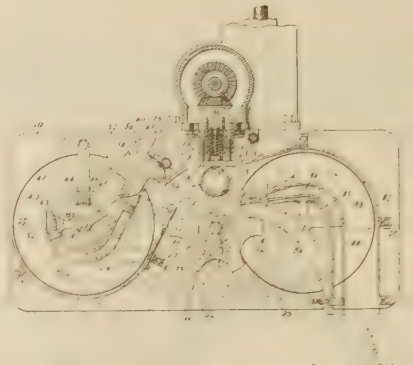
1. A ship hull section consisting of a metal plate shaped to form a side section and having its lower end directed inwardly to form a bottom portion and its upper end directed inwardly to form a deck supporting portion, said plate having a continuous peripheral flange extending inwardly of the hull.

1,418,630. SNOW-DISPOSAL DEVICE. EDWARD V. CROUSE, Chicago, Ill. Filed July 28, 1919. Serial No. 313,857. 10 Claims. (Cl. 126—343.5.)



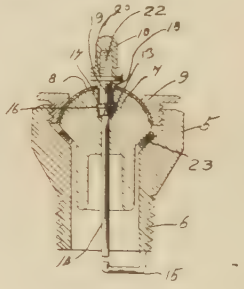
1. In a snow melting apparatus, a hopper, a combustion chamber having the side walls thereof insulated, a substantially horizontal perforated metallic partition disposed between said combustion chamber and said hopper, and means for creating an intense heat in said combustion chamber.

1,418,631. PACKAGING APPARATUS. WILLIAM V. DERBY, Baltimore, Md., assignor to The Crown Cork and Seal Company of Baltimore City, a Corporation of Maryland. Filed Dec. 11, 1919. Serial No. 344,255. 17 Claims. (Cl. 226—84.)



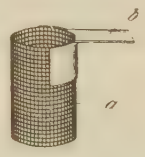
1. In a packaging apparatus, and in combination, a bottle centering spider having a plurality of bottle receiving pockets, means for rotating said spider, a bottle sweeper for feeding the bottles into said pockets, and means operating in synchronism with said spider-rotating means and tending to operate said sweeper to feed a bottle, the sweeper being operated thereby only when in given relation with said operating means and being placed in such relation by the movement of a bottle into a position to be fed.

1,418,632. SPARK PLUG. PAUL J. DONAVAN, Denver, Colo. Filed Jan. 20, 1920. Serial No. 352,837. 2 Claims. (Cl. 123—169.)



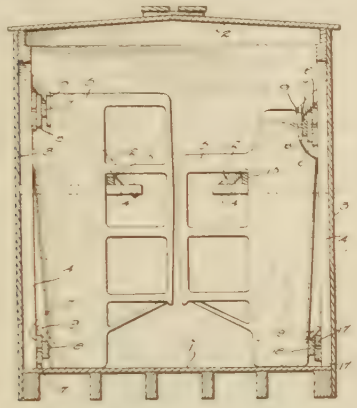
1. A spark plug, whose insulating member is convexly curved exteriorly, a fiber washer covering said curved part of said member, and a bushing nut threaded into the metal body and concaved to conform to the curvature of the adjacent part of the insulating member, and arranged to engage said washer.

1,418,633. HEATING-BAR TERMINAL. GEORG EGLY, Berlin-Treptow, Germany, assignor to Gebr. Siemens & Co., Lichtenberg, near Berlin, Germany, a German Corporation. Filed Oct. 21, 1920. Serial No. 418,615. 6 Claims. (Cl. 219—63.)



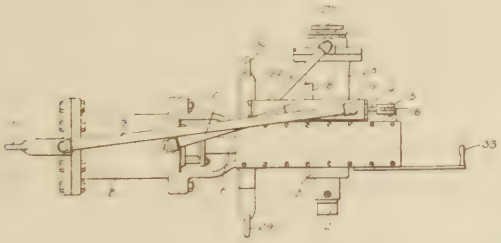
1. Means for attaching conductors to electric heating bars comprising a perforated tubular body and a metallic coating on said body extending through said perforations.

1,418,634. SUPPORTING DEVICE FOR VEHICLE BODIES. HARRY E. FIFE, Lansing, Mich. Filed Feb. 6, 1922. Serial No. 534,504. 4 Claims. (Cl. 105—368.)



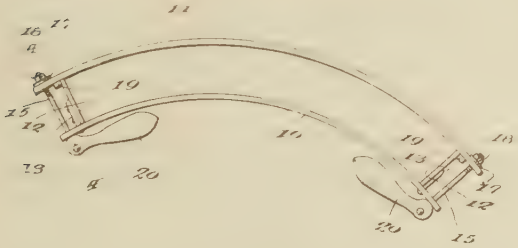
1. In a device of the character described, a pair of supporting members projecting from the wall of a freight car and spaced slightly greater than the width of a vehicle body to be supported, a member secured to said supporting members and passing through the car body to prevent movement thereof, and spacing members arranged between said body and the freight car wall.

1,418,635. MOLD-OPENING DEVICE. WILLIAM FINN, Detroit, Mich., assignor to Morgan & Wright, a Corporation of Michigan. Filed Oct. 18, 1920. Serial No. 417,626. 10 Claims. (Cl. 18—2.)



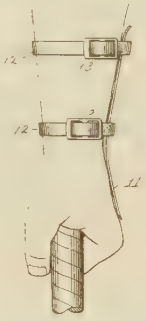
1. An annular mold opener having in combination, a wedge, and fluid pressure devices for operating the wedge to separate the mold sections.

1,418,636. CURVED-BLOCK MOLD. DANIEL FIX, Milaca, Minn. Filed May 19, 1921. Serial No. 470,840. 1 Claim. (Cl. 25—121.)



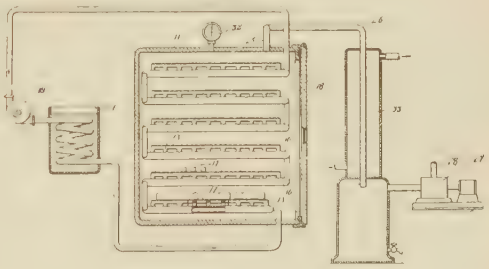
A mold for a curved block comprising a pair of parallel curved side boards, one of the boards having transverse battens adjacent one end and open-ended slits in its ends outwardly of the battens, the other side board having an angularly extending end board carried by each end portion of its convex face, said end boards being disposed to engage the inner face of the first board inwardly of the battens, a bolt disposed through each end of the second board outwardly of the end board and passing through an open-ended slot of the first board, and a cam lever pivotally carried by each bolt for engagement with the outer face of the second board.

1,418,637. DEVICE FOR USE IN PLAYING GOLF. VALENTINE SWIFT FLOOD, New Britain, Conn. Filed Mar. 23, 1920. Serial No. 368,092. 2 Claims. (Cl. 46—4.)



1. A device for use in playing golf, comprising a brace for preventing sudden backward breaking of the wrist joint, means for securing said brace in a position for use with a portion extending back of the wrist along the player's arm and a portion extending forward of the wrist along the back of the player's hand, said second named portion of the brace all lying on one side of the hand engaging surface of the brace, whereby sidewise flexing of the wrist is permitted.

1,418,638. APPARATUS FOR PRESERVING FOOD. EDWARD M. FRANKEL and KAUFMAN GEORGE FALK, New York, N. Y., assignors to William G. Lyle, trustee, New York, N. Y. Original application filed Jan. 30, 1918, Serial No. 214,449. Divided and this application filed Aug. 13, 1918. Serial No. 249,738. 1 Claim. (Cl. 34—30.)

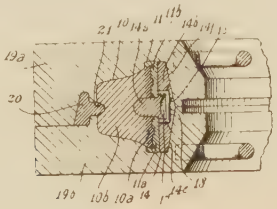


Apparatus for preserving food comprising, a vacuum chamber having a shelf adapted to have a heating fluid circulate in contact with its under side, a removable tray on said shelf comprising a grid-like structure providing portions contacting with said shelf and intermediate air passages between the shelf and tray, and a wire gauze support for the material resting in contact with the surface of said tray, so that the food is heated by conduction from the heated shelf and is exposed to air currents from beneath.

1,418,639. APPARATUS FOR MAKING CUSHION TIRES. JOHN R. GAMMETER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Oct. 6, 1921. Serial No. 505,884. 13 Claims. (Cl. 18—42.)

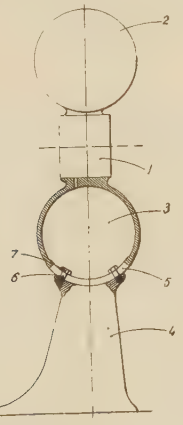
1. Apparatus for making a cushion tire-body comprising an annular metal base adapted to support said tire-body, a set of core members formed with molding portions

adapted to extend beyond said base into the tire-body and with portions adapted to underlie and abut said base,



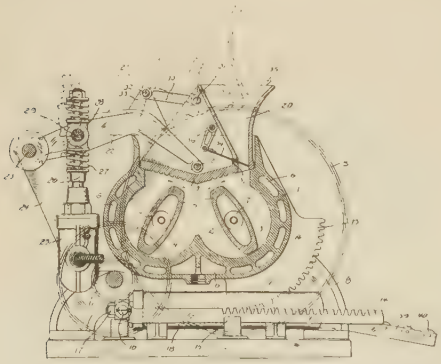
and means for urging said core members outward against said base.

1,418,640. SUPPORTING DEVICE FOR CINEMATOGRAPHIC APPARATUS. PIERRE SYLVAIN GAURIAT, Paris, France, assignor to Etablissements Continsouza (Societe Anonyme), Paris, France. Filed Mar. 15, 1920. Serial No. 366,093. 1 Claim. (Cl. 88—17.)



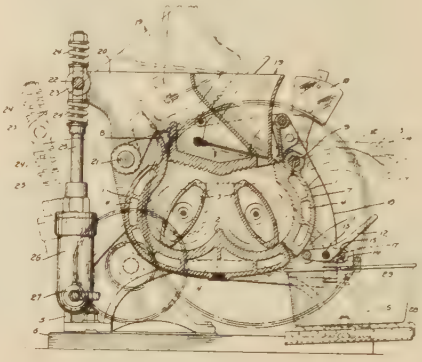
In a cinematographic apparatus, the combination with an upper and lower circular film protecting receptacle forming a unitary structure with said apparatus, of a base for said apparatus provided with a semi-circular seat for receiving the lower curved edge of the lowermost receptacle, a circumferential slot formed in said lower edge and adjustable fastenings passing through said slot and secured in the base for adjustably mounting the apparatus on said base to swing about the axis of said lowermost receptacle.

1,418,641. MIXING MACHINE. ROY H. GERARD, Detroit, Mich., assignor to Morgan & Wright, a Corporation of Michigan. Filed May 25, 1921. Serial No. 472,382. 5 Claims. (Cl. 18—2.)



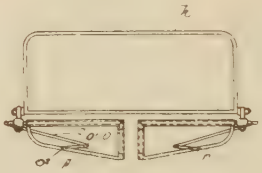
1. A mixing machine including in combination, a container, agitating means within the container, means for actuating the agitating means, a combined cover and hopper for completely confining material in the container, means for tilting the container to discharge its contents, and means including a lever movable about a fulcrum fixed relative to the container for removing the combined cover and hopper from a position obstructing discharge of the contents of the container.

1,418,642. MIXING MACHINE. ROY H. GERARD, Detroit, Mich., assignor to Morgan & Wright, a Corporation of Michigan. Filed May 25, 1921. Serial No. 472,383. 5 Claims. (Cl. 18—2.)



1. A mixing machine having a stationary container with internal working chamber, agitating means movable within said chamber, said container being provided with a mouth, a combined cover and hopper for seating in said mouth and substantially closing the container, said combined cover and hopper being fulcrumed adjacent the mouth of said container, and means for moving the combined cover and hopper about its fulcrum.

1,418,643. SUPPORTING FRAME FOR WINDSHIELDS. ALFRED GOLDE, Gera, Germany. Filed Feb. 7, 1920. Serial No. 357,087. 2 Claims. (Cl. 296—85.)

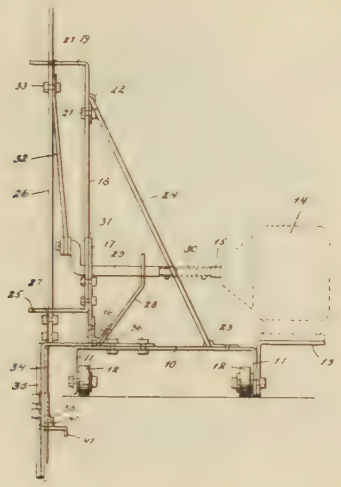


1. A supporting frame for wind-shields, including a horizontally swinging tube pivoted at its inner end and provided with an inclined brace located beneath the tube and connected to the outer end of the same to stiffen the said tube, a telescoping rod slidable in the said tube and provided with an inclined brace or stiffening member located below the said rod, and a double joint link connecting the lower end of the bracing and stiffening member of the telescoping rod with the brace of the horizontally swinging tube and pivoted to the latter intermediate of the ends thereof.

1,418,644. PORTABLE JIG SAW. SEBA H. HAWLEY, Springfield, Mo. Filed Sept. 2, 1920. Serial No. 407,705. 2 Claims. (Cl. 143—68.)

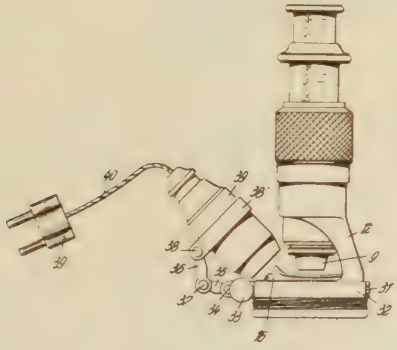
1. A device of the character described comprising a wheeled base, an upright frame hingedly mounted upon said base, a brace member pivoted upon the base and pivotally and slidably connected with the upper portion of said upright frame, a power device mounted on the

base, a shaft journaled through said frame and driven by said power device, a flexible connection between the power device and said shaft, a crank portion on said



shaft, a reciprocatory bar slidable through said frame and connected with said crank portion, and a saw carried by said bar.

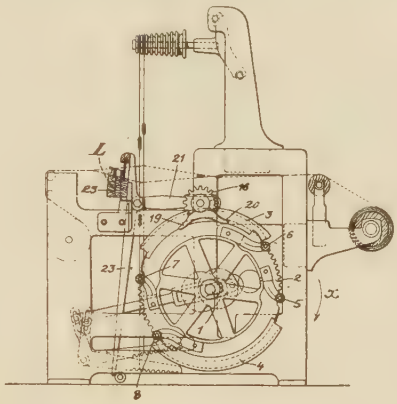
1,418,645. EXTENSIBLE POCKET MICROSCOPE WITH VARIABLE ENLARGEMENT AND WITH FINE ADJUSTMENT. CARL HENSOLDT, Wetzlar, Germany. Filed Jan. 10, 1922. Serial No. 528,168. 11 Claims. (Cl. 88—39.)



1. A pocket microscope comprising a frame consisting of a foot portion and a standard, an object tube mounted in said standard, fine adjusting means for moving said object toward and from said foot, and a plurality of telescoping tubes mounted in said object tube and adapted to be variably extended to vary the magnification and to be retracted within the object tube to produce a compact structure.

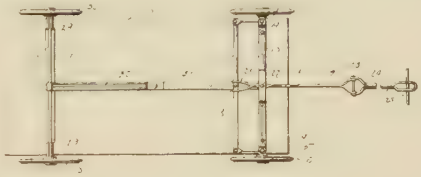
1,418,646. OPERATING MECHANISM FOR POWER-DRIVEN LOOMS. ALBERT HONEGGER, Ruti, Switzerland, assignor to Maschinenfabrik Ruti formerly Caspar Honegger, Ruti, Switzerland. Filed Aug. 24, 1921. Serial No. 494,783. 6 Claims. (Cl. 139—67.)

1. A power driven loom comprising stationary shuttle boxes and a movable batten, a crank shaft, a partially toothed pinion mounted on the crank shaft, a driving wheel having two diametrically opposed toothed portions meshing alternately with said pinion, a member in operative connection with the crank shaft having an inclined surface thereon, and rollers mounted on the driving wheel at the ends of each toothed portion thereof, the rollers at one end of each toothed portion of the driving wheel being capable of acting upon one of said inclined



surfaces and of running up said pinion and the roller at the other end of each toothed portion of the driving wheel being capable of receiving the push of the other inclined surfaces and of retaining said pinion.

1,418,647. TOY WAGON. BERT MACE HUFF, Highland Park, Mich., assignor to Harold A. Arnold, Detroit, Mich. Filed Dec. 9, 1919. Serial No. 343,661. 1 Claim. (Cl. 280—87.5.)

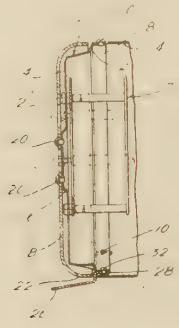


A vehicle comprising a body having a frame secured to its forward end including depending arms and a connecting cross member, an axle secured to the depending arms and having terminal bifurcations, knuckles pivoted in the bifurcations and provided with spindles having wheels mounted thereon, a rod connecting the knuckles, the axle having a central opening through it, a steering rod passed through the opening, a pivot bolt engaged through the steering rod and the upper and lower sides of the opening through the axle, the rear end of the steering rod being bifurcated vertically and transversely and receiving the first-named rod between its vertically spaced bifurcations, a pin engaged through the first-named rod between the laterally spaced bifurcations of the steering rod, an inverted U-shaped frame including depending arms and a connecting cross member secured to the rear end portion of the body, an axle mounted in the depending arms of the rear frame and provided with wheels, and a brace secured at its forward end to the front axle through the medium of the pivot bolt and secured to the under side of the body and having its rear end terminating in an eye that embraces the rear axle.

1,418,648. REFRACTORY MATERIAL AND PROCESS OF MAKING SAME. ROBERT W. HULL, Hingham, Mass. Filed Apr. 9, 1921. Serial No. 459,999. 7 Claims. (Cl. 106—9.)

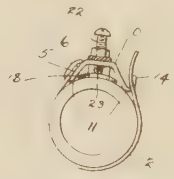
1. A refractory material for surfaces subjected to intense heat comprising waste material left after concentrating disseminated chrome ore containing a mixture of silica, serpentine and olivin and united by a binder.

1,418,649. CLOCK CASE. CHARLES H. HYDE, Winsted, Conn., assignor to William L. Gilbert Clock Company, Winsted, Conn., a Corporation of Connecticut. Filed Feb. 21, 1922. Serial No. 538,205. 2 Claims. (Cl. 58—54.)



1. A metal alarm clock of the class described having, in combination, a clock case having a forward part of sheet metal in the form of a cylindrical shell, a back cover having a flange telescopically received within the rear portion of said forward part of the case, a gong having a forwardly projecting peripheral flange of the same diameter as said shell, said peripheral flange having its edge in line with and slightly spaced away from the rear edge of the forward part of the case, means for holding said cover in place, front legs for the case, and a rear leg for the case, comprising a tongue-shaped member having its upper end portion secured to said flange and having its remaining portion bent downwardly closely adjacent to the rear edge of said forward part to extend through the space between the edges of the gong and forward part of the case and then bent rearwardly to form a rearwardly projecting supporting portion.

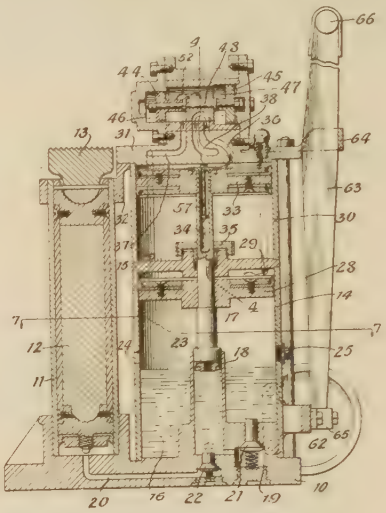
1,418,650. PIPE CLAMP. FREDERICK I. JOHNSON, Warren, R. I., assignor to Mary W. Johnson, Warren, R. I. Filed July 3, 1920. Serial No. 393,799. 3 Claims. (Cl. 173—273.)



1. A clamp for ground wires comprising a saddle member, a contact shoe member having one end adapted to engage the grounding pipe and having a portion positioned to extend across and beyond the body of said saddle, clamping means for securing said saddle and shoe in position to the grounding pipe, and means at the free end of said shoe member to which the conductor wire may be soldered.

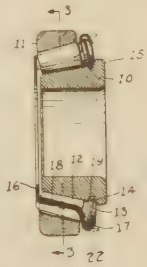
1,418,651. LIFTING JACK. LAWRENCE T. JOHNSON, Buffalo, N. Y. Filed Mar. 23, 1921. Serial No. 454,749. 5 Claims. (Cl. 138—9.)

1. A lifting jack comprising a base, a hydraulic lifting cylinder mounted on said base, a lifting piston arranged in said cylinder, a hydraulic pressure cylinder mounted on said base and connected with said lifting cylinder, a pressure piston arranged in said pressure cylinder, a pneumatic motor for operating said pressure piston and mounted on



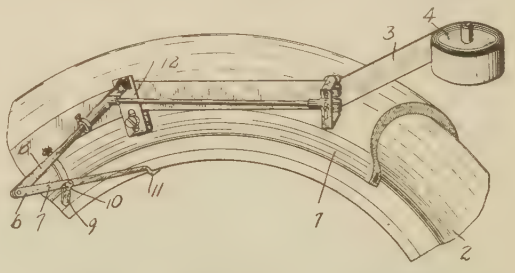
said base and an automatically operating valve mechanism for causing said pneumatic motor to operate continuously at will.

1,418,652. ROLLER-BEARING CAGE. WALTER C. KEYS, Cleveland, Ohio, assignor to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 31, 1919. Serial No. 334,639. 5 Claims. (Cl. 64—42.)



1. In a roller bearing, the combination of a cage having end flanges and bridging members connecting said flanges, rollers arranged between said flanges and spaced apart by said members, and each of said members being formed with an outwardly opening channel which extends through one of said flanges and thereby forms indentations in one edge thereof.

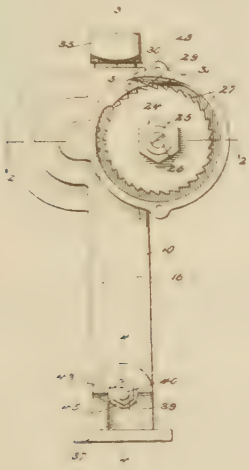
1,418,653. SHAFFER-STRIP-GUIDE DEVICE. A DEWEY KILGORE, Akron, Ohio. Filed Apr. 8, 1920. Serial No. 372,279. 7 Claims. (Cl. 216—20.)



1. In a strip guiding device for the reinforcing strips of a tire carcass, the combination with a compass, one leg of

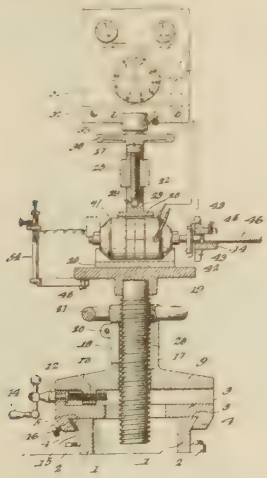
which is adapted to bear against the inner periphery of a carcass core, of a strip guiding device connected to the other leg of the compass and through which the adhesive strip is drawn as the carcass is revolved.

1,418,654. JACK. WILLIAM C. KIRK, Sr., Chattanooga, Tenn. Filed Mar. 21, 1921. Serial No. 454,048. 8 Claims. (Cl. 254—97.)



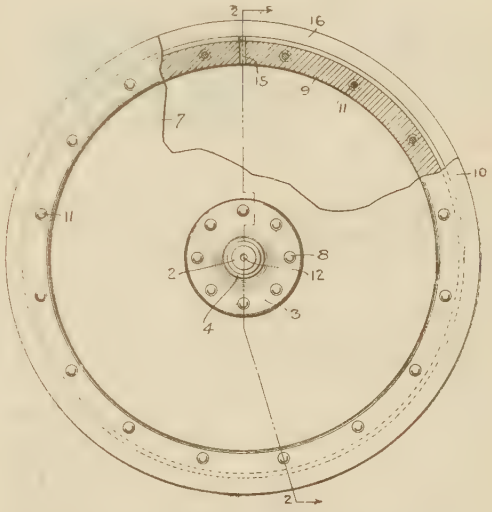
1. In a jack comprising a supporting casing, a lifting element mounted for vertical movement within said casing, a power shaft and means for transmitting motion from said power shaft to said lifting element, a friction clutch upon said power shaft comprising fixed and movable members, and means for moving said movable member into frictional engagement with said fixed member, in application of power to the jack.

1,418,655. ADJUSTABLE SUPPORT FOR TESTING ELECTRICAL UNITS. GEORGE A. KLEMMER, Owatonna, Minn. Filed Aug. 23, 1919. Serial No. 319,351. 12 Claims. (Cl. 248—30.)



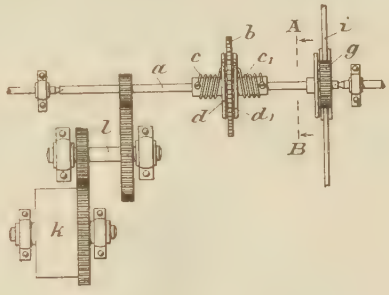
1. An apparatus for supporting testing magnetoes, generators, and other electrical units for testing purposes, comprising a stand having a base and a pedestal mounted thereon for adjustment in various horizontal directions, and means for holding an electrical unit mounted for vertical adjustment on said pedestal.

1,418,656. VEHICLE WHEEL. WILHELM C. KROEGHER, Bellevue, Pa.; John H. Kroegher being administrator of said Wilhelm (or William) C. Kroegher, deceased. Filed Aug. 21, 1915, Serial No. 46,609. Renewed Apr. 20, 1922. Serial No. 555,693. 2 Claims. (Cl. 152—22.)



2. A wheel comprising a hub member, a rim member, a pair of annular plates mounted on said hub member and said rim member and spaced apart to form a hollow web for the wheel, and means for introducing air under pressure into said web cavity of the wheel, a resilient tire having an inner face, and means for permitting the air within the wheel web to impinge against the inner face of said tire to expand the same uniformly around the circumference of the wheel.

1,418,657. MOTOR MECHANISM FOR OPERATING TELAUTOGRAPHS. STANISLAUS KUCHARSKI, Charlottenburg, near Berlin, Germany, assignor to Richard A. Hansemann, Berlin, Germany. Filed Oct. 1, 1919. Serial No. 327,830. 2 Claims. (Cl. 185—38.)

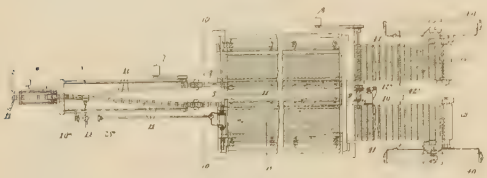


2. In a telautograph of the Gray type, a shaft, a source of power permanently tending to turn the said shaft, an escapement wheel loosely mounted on the shaft, a coupling spring attached at one end to the escapement wheel and at the other end to the shaft, a pallet detaining the escapement wheel so as to enable the said source of power to tension the said spring, the said coupling spring being adapted to operate also as a stop-member for limiting the rotary movement of the escapement wheel relative to the shaft, and an electromagnet for moving the said pallet and releasing the escapement wheel.

1,418,658. METHOD AND MEANS FOR BRICK HACKING. JAMES B. LADD, Ardmore, Pa. Filed July 19, 1919. Serial No. 312,019. 35 Claims. (Cl. 214—6.)

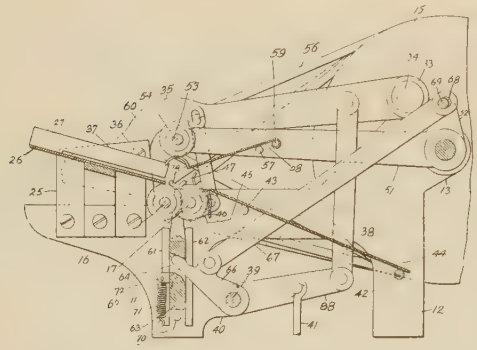
1. The method of loading and hacking bricks, which consists in the following steps, moving bricks in the direc-

tion of their length, bringing the bricks to rest abutted end to end in rows greater in length than a car, assembling said rows in parallel relationship, sufficient in number to



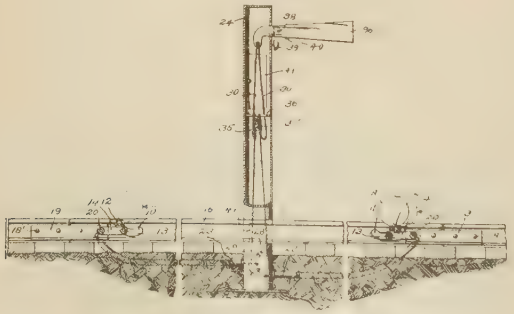
form a layer the full width of the car, and transferring to the car at one operation, such part of said assembled rows as shall form a complete layer for the car.

1,418,659. CANDY-WRAPPING MACHINE. FRANK BEN LANTERY, South Easton, Mass. Filed Aug. 19, 1919. Serial No. 318,539. 2 Claims. (Cl. 93 -5.)



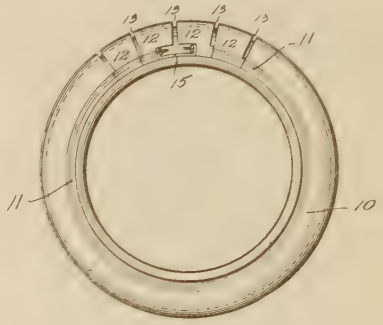
1. In a wrapping machine, the combination of an inclined table, yielding guides mounted on each side of said table, a passageway between the guides and the table to permit the passage of a strip of paper therethrough, a cutting edge at one side of the table, and a pivotally mounted cutter cooperating with said cutting edge to sever the strip of paper passing between the guides and the table.

1,418,660. RAILWAY-CROSSING SIGNAL. LESTER A. LAWHEAD, St. Joseph, Mo. Filed July 6, 1920. Serial No. 394,166. 2 Claims. (Cl. 246—294.)



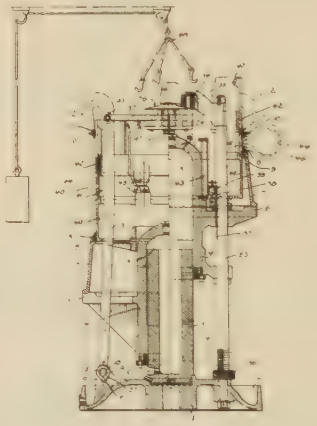
1. A signal comprising a post, a movable signal arm secured thereto, a plurality of treads substantially secured to a rail, means connecting each of said treads with the signal arm, a warning signal secured to said post, a member carried by the movable signal arm and adapted to engage at intervals said warning signal, and means for permitting the independent operation of each of said treads.

1,418,661. PROTECTIVE ARMOR FOR PNEUMATIC TIRES. CLARENCE W. LOUDON, Huntington Park, Calif. Filed Oct. 31, 1921. Serial No. 511,553. 1 Claim. (Cl. 152—16.)



A protective covering for a pneumatic tire, comprising a casing that includes a relatively long segmental member and a series of relatively short segments; portions of the ends of said short segments being spaced apart; the inner lower corners of the members of an adjacent pair of said short segments being cut away; wires extending through the bead portions of said casing, the ends of which wires terminate within the cut away corners of the pair of segments, and means connecting the ends of the wires within said cut away corners for drawing said wires together and contracting the casing and segments.

1,418,662. TIRE-SHAPING MACHINE. HECTOR V. LOUGH, Hartford, Conn., assignor to The Hartford Rubber Works Company, a Corporation of Connecticut. Filed Aug. 31, 1920. Serial No. 407,082. 8 Claims. (Cl. 154—10.)

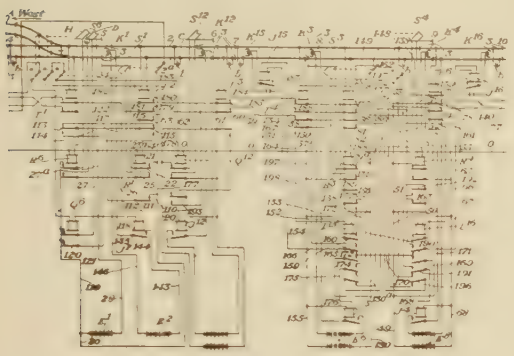


1. A tire forming machine having means for shaping a carcass from a substantially flat band into substantially tire form including telescoping drums and abutment members shiftable to clear the drums for convenience in introducing and removing a tire carcass, in combination with means below the tops of the abutment members for simultaneously shifting them.

1,418,663. RAILWAY-TRAFFIC-CONTROLLING SYSTEM. RONALD A. MCCANN, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Continuation of application Serial No. 384,829, filed May 28, 1920. This application filed Nov. 19, 1920. Serial No. 425,152. 25 Claims. (Cl. 246—33.)

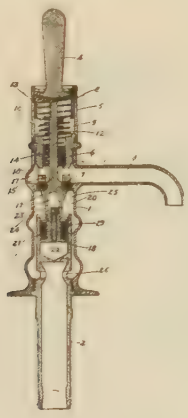
25. In combination, a stretch of railway track including two sections separated by staggered insulated rail joints,

a trackway device located between said joints and arranged for cooperation with trains moving in both direc-



tions, and means for controlling said device by traffic conditions in both of said sections.

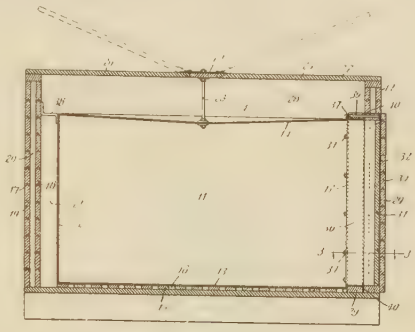
1,418,664. SELF-CLOSING FAUCET. JOHN MCNEIL, Cincinnati, Ohio, assignor to The John Douglas Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 19, 1919. Serial No. 291,316. 2 Claims. (Cl. 251—132.)



1. A faucet comprising a casing having inlet and discharge passages, a cup having an imperforate bottom and being in the inlet passage and in axial alignment with the casing, a valve in the casing, a valve plunger at the lower end of the valve and engaging the inner walls of the cup, said plunger having an internal passage and a port at the lower end of the passage forming communication between the passage and the inside of the cup, and a port at the upper end of the passage forming communication with the inlet passage, a pin located within the passage in the plunger, and adapted to seat against the wall surrounding the port in the bottom thereof.

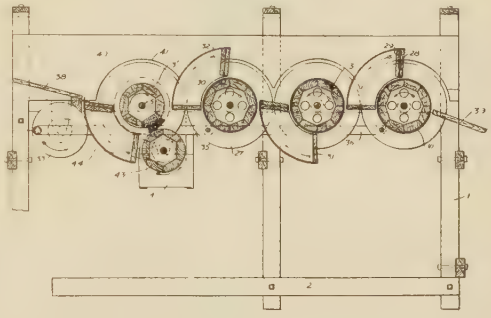
1,418,665. REFRIGERATING APPARATUS. ARTHUR B. MACKAY, Woburn, Mass., assignor to John J. Grothe Company, Inc., Woburn, Mass., a Corporation of Massachusetts. Filed Sept. 2, 1921. Serial No. 498,080. 13 Claims. (Cl. 62—68.)

1. A refrigerating apparatus having, in combination, a container having a cooling chamber for articles, the walls of said apparatus having a plurality of chambers therein, one of said wall chambers geing adapted to contain a mixture of ice and salt and another of said wall cham-



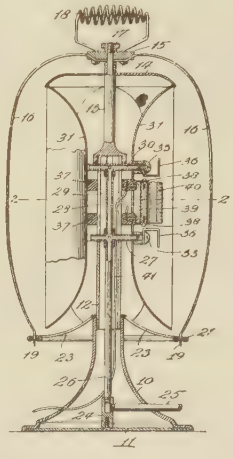
bers constituting an air chamber surrounding said ice and salt chamber and segregated from said cooling chamber.

1,418,666. POLISHING MACHINE. EDWARD N. MAULL, Orlando, Fla., assignor to Skinner Machinery Company, Dunedin, Fla., a Corporation of Florida. Filed Feb. 1, 1922. Serial No. 533,262. 12 Claims. (Cl. 146—14.)



5. A fruit polishing apparatus including a serie sof parallel spaced horizontally disposed polishing brushes rotating in the same direction, and means in advance of certain brushes of said series for receiving fruit and propelling the same axially over the brushes from one end to the other of the series in a direction opposite to that of the rotation of said brushes.

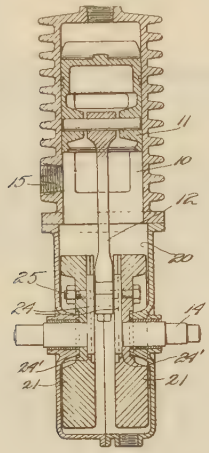
1,418,667. COMBINATION ELECTRIC AND GAS HEATER. CARRIE A. MUIR, Los Angeles, Calif. Filed Jan. 30, 1922. Serial No. 532,654. 4 Claims. (Cl. 219—34.)



3. In a portable heater, a standard, a disc supported by the upper portion of said standard, a series of heat

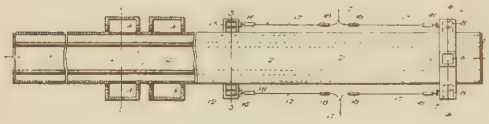
reflecting members arranged beneath said disc and disposed about said standard and an electric heating coil and a gas burner arranged within each heat reflecting member.

1,418,668. INTERNAL-COMBUSTION ENGINE. GEORGE H. NOBBS, Watertown, Mass. Filed Nov. 22, 1919. Serial No. 339,786. 6 Claims. (Cl. 123—73.)



1. The combination, in an internal combustion engine, of a cylinder and a crank case arranged to receive a mixture of fuel and air, and a balance fly wheel rotatable within the crank case, having its sides and face closely fitting the walls thereof except that said wheel is deformed from circular shape on a part of its face which rotates past the cylinder end between the time of intake and discharge of said mixture.

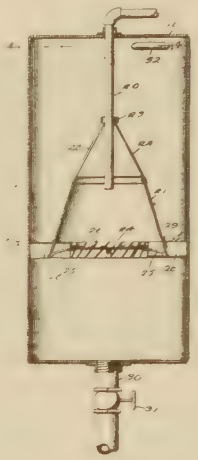
1,418,669. TUNNEL KILN. ELLSWORTH P. OGDEN, Columbus, Ohio, assignor to John B. Owens, Zanesville, Ohio. Filed Nov. 5, 1920. Serial No. 422,000. 7 Claims. (Cl. 25—142.)



1. A tunnel kiln provided with a main stack or fan and also having an auxiliary stock or fan independent thereof by which special bases and vapors which have been introduced into the kiln for special purposes may be removed therefrom without resort being had to the means for inducing the main draft.

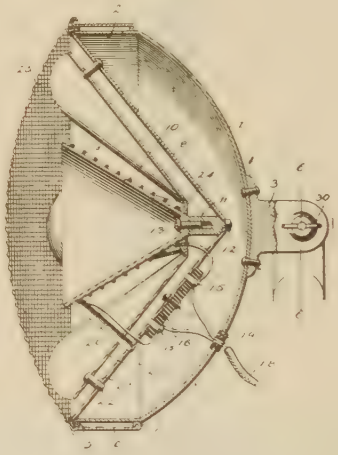
1,418,670. BOILER CLEANER. ALFRED A. OLSON, Cardin, Okla. Filed Oct. 7, 1920. Serial No. 415,314. 2 Claims. (Cl. 210—52.)

1. In a sediment tank, a pipe to deliver water from a boiler to said tank, a cone supported in said tank, said pipe having its outlet arranged in said cone ,a baffle plate arranged in said cone, the edges of said plate being



space dfrom the walls of the cone, and spiral blades arranged in said space.

1,418,671. ELECTRICALLY-CONTROLLED HEATER. CHARLES EDWIN PATTERSON, San Francisco, Calif. Filed Nov. 17, 1920. Serial No. 424,642. 14 Claims. (Cl. 219—34.)

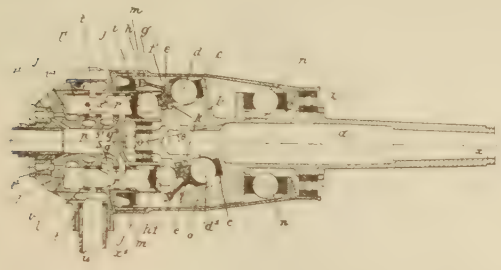


7. An electric heater comprising a casing, a reflector within the casing, a heating element within the reflector, said reflector being of conical form to direct the rays emanating from the element conically from the heater, and a ring carried upon the peripheral edge of the casing and movable inwardly and outwardly to occupy a position wherein the rays passing from the reflector are directed forward in the form of a cylinder.

1,418,672. HYDRAULIC PUMP. ROBERT ESNAULT PELTERIE, Paris, France. Filed Mar. 27, 1919. Serial No. 285,690. 8 Claims. (Cl. 103—77.)

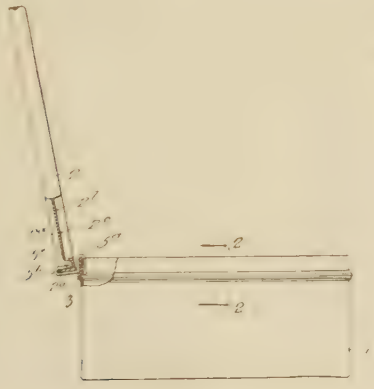
1. A hydraulic power transmitting device comprising a casing, a shaft in said casing, a plurality of cylinders, a piston in each cylinder, a member secured to said shaft having an operating surface inclined with respect thereto, an annular member located between said pistons and said

operating surface and serving as a motion transmitting means, means to prevent rotation of said annular member



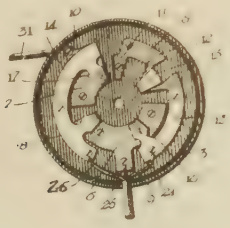
but permitting a movement of nutation thereof, and free balls located between said pistons and said annular member as a means for transmitting motion therebetween.

1,418,673. SUPPORT FOR BOX COVERS. FRANK N. PRINCE, Passaic, N. J., assignor to Passaic Metal Ware Co., Passaic, N. J., a Corporation of New Jersey. Filed Apr. 1, 1921. Serial No. 457,668. 4 Claims. (Cl. 217—61.)



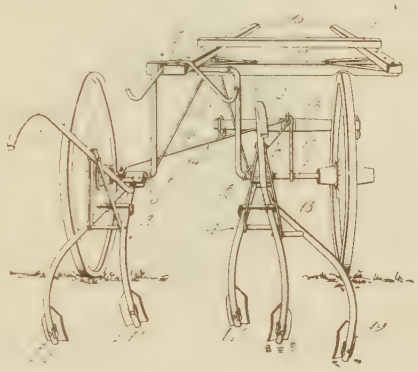
1. A support for a box cover comprising laterally disposed members having open inner portions adapted to detachably receive the flange of the cover provided with means to sustain said members upon the edge of the box.

1,418,674. SWITCH. ROY ROSS RISK, Shreveport, La. Filed July 19, 1920. Serial No. 397,214. 1 Claim. (Cl. 200—11.)



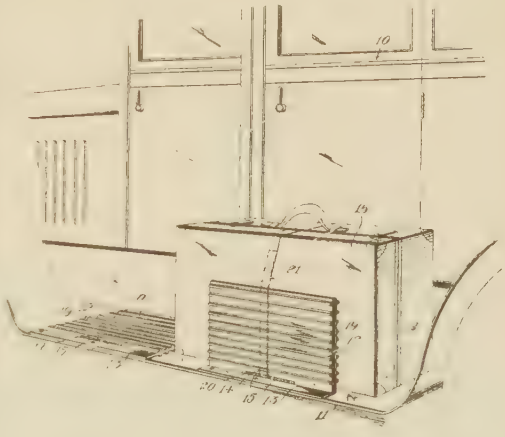
A device of the character specified comprising a plurality of series of arc shaped switch plates, the members of one series being spaced outwardly from the members of the other series and having inwardly extending contact members overlying the members of the first named series, and a switch arm mounted to rotate at the center of the series, said arm being of insulating material and having strips of conducting material upon its upper and lower faces adapted to engage between the members of the first named series and the contact members of the other series to simultaneously provide a plurality of electrical connections between the strips.

1,418,675. CULTIVATOR. JAMES D. RODGERS, Silverton, Oreg. Filed Oct. 7, 1920. Serial No. 415,257. 4 Claims. (Cl. 97—35.)



4. In combination a cultivator including a wheel-supported axle and separate sets of earth-working implements extending rearwardly from said axle, draft means arranged on one side of the longitudinal center of the cultivator in front of and in alignment with one of the sets of implements, a diverging detachable bar carried by the last named set of implements, and a ground-engaging member on the free end of said bar.

1,418,676. COMBINED MAT AND LUGGAGE CARRIER. FREDERICK A. RUFF, Newark, N. J. Filed Dec. 3, 1920. Serial No. 427,957. 3 Claims. (Cl. 224—29.)

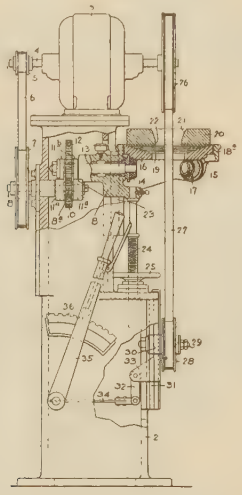


1. A combined mat and luggage carrier comprising a rigid plate, a strip to which the plate is hinged, the strip having means for attaching it to the running board of an automobile, and a resilient covering on both faces of the plate, whereby one face can function as a mat and the other face forms a friction surface for holding baggage.

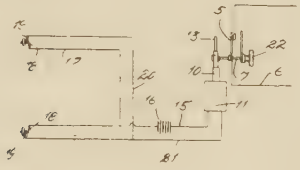
1,418,677. APPARATUS FOR POLISHING METAL ARTICLES. ORIN W. SADLER, Jr., Belle Vernon, Pa. Filed Jan. 31, 1921. Serial No. 441,345. 7 Claims. (Cl. 51—145.)

1. In a machine of the character described, a rotary work-support having an opening, an abrasive belt passing

through said opening, means for driving said belt, means for adjusting said belt and said support, the one with relation to the other, whereby the angle of contact of said belt with the work may be varied, and means for rotating said support.



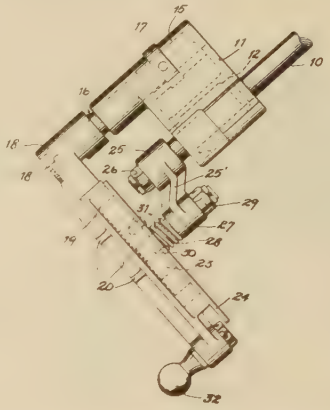
1,418,678. IMPACT-ACTUATED CONTROL MECHANISM FOR VEHICLES. KARL OSTEN SCHAUMAN, San Francisco, Calif. Filed Apr. 5, 1920. Serial No. 371,383. 1 Claim. (Cl. 180—83.)



A safety device for motor vehicles, the same comprising an electric circuit, an ignition circuit for the vehicle motor and a switch therein, a bumper associated with the vehicle and having normally separated contacts forming a portion of said circuit and normally interrupting the same, an electro-magnet in said electric circuit, an operating connection between the core thereof and said ignition switch, said core adapted on the closing of said circuit by the making of said bumper contacts to operate the ignition switch to break said circuit.

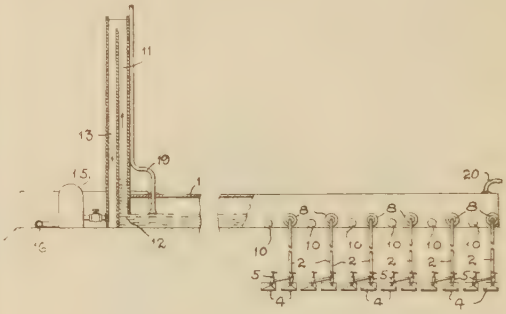
1,418,679. IRREVERSIBLE STEERING GEAR FOR FORD CARS. GEORGE A. SCHIPPER, Aurora, Ind. Filed Nov. 3, 1921. Serial No. 512,417. 1 Claim. (Cl. 74—79.)

The combination with an automobile steering rod, of a main body bracket adapted to be secured to the steering rod bracket and having a sleeve extension, a shaft revolubly secured in said sleeve and having a lever arm secured thereto, the latter having a guide recess formed therein, a crank arm secured to the lower end of steering rod, a stud secured to one end of the crank arm, a slide block having a hole therein, slidably engaged in the recess of the lever arm and actuated by the crank arm stud, a plate secured to the slide block adapted to cover the lever arm surface, and



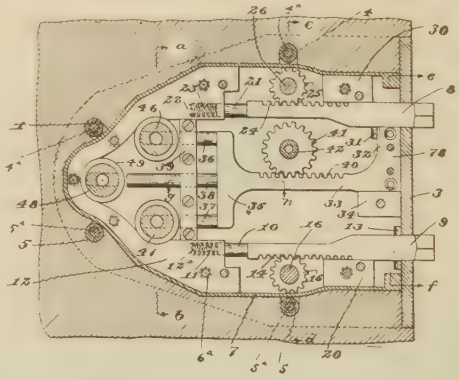
a spring retained on the stud member, and adapted to keep the plate member in engagement with the lever arm surface.

1,418,680. METHOD OF AND APPARATUS FOR OBTAINING POWER FROM THE SURF. WILLIAM SEAMAN SCOTT, Maplewood, N. J. Filed July 7, 1917, Serial No. 179,108. Renewed Nov. 4, 1921. Serial No. 512,938. 10 Claims. (Cl. 230—32.)



1. In a device of the kind described, a chamber, a plurality of wave-receiving means connected thereto, a stand pipe communicating with said chamber, an outflow pipe communicating with the stand pipe adjacent its upper end, and a second chamber located at a lower level than the first chamber and connected to the outflow pipe.

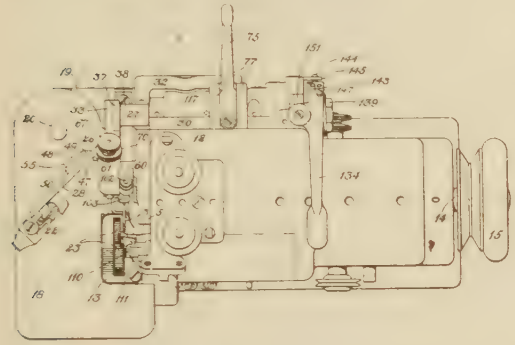
1,418,681. COMBINATION LOCK. JOSEPH SLEIVIS, Chelsea, Mass. Filed July 6, 1921. Serial No. 482,673. 16 Claims. (Cl. 70—53.)



1. A combination lock comprising a slidable bolt provided with integral rack teeth, a pinion engaging said

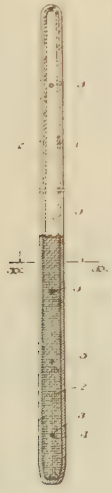
rack teeth, a knob for rotating said pinion, a pin projecting from said bolt, a reciprocable actuating bar engageable with said pin, a rod fixedly secured to said bar, a tumbler for engaging said rod whereby to control the movement of said bar, rack teeth carried by said bar, a pinion engaging said rack teeth, and a knob for rotating said pinion.

1,418,682. SEWING MACHINE. WILLIAM H. STEDMAN, Mansfield, Conn., assignor to The Merrow Machine Company, Hartford, Conn., a Corporation of Connecticut. Filed May 17, 1919. Serial No. 297,853. 18 Claims. (Cl. 112—235.)



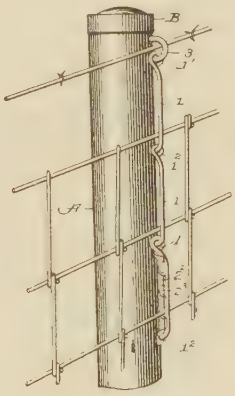
18. The combination with stitching mechanism including a needle carrier and actuating elements therefor operably supported on one side of the line of stitching, of a presser-foot, a needle or work plate, a carrier for the presser-foot pivotally supported on the needle carrier side of the line of stitching and including an arm extending in the direction of the line of stitching on the opposite side thereof from the needle carrier, a bracket extending above the line of stitching, means supported by the bracket for applying a yielding pressure against the arm to move the presser-foot toward the needle or work plate, thread guides supported by the bracket, a take-up element associated with the needle carrier actuating mechanism and movable into alignment with the thread guides, and a shank for the presser-foot pivoted to the arm whereby the presser-foot may be moved from its normal position to facilitate threading of the thread guides, take-up element and needle.

1,418,683. TOOL HANDLE. WILLIAM HATTON STEVENS, Hollidaysburg, Pa. Filed Dec. 23, 1920. Serial No. 432,860. 4 Claims. (Cl. 145—61.)



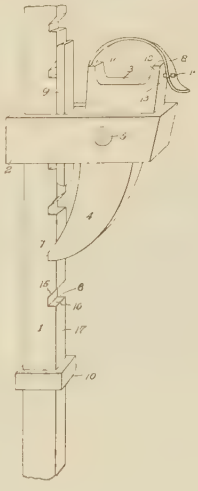
1. A tool handle comprising a tubular metal core, a molded body encasing said core, and means spaced from said core for fixing said core and body together.

1,418,684. WIRE-FENCE ATTACHMENT. WILLIAM MELVIN STORY, Wabash, Ind. Filed Feb. 27, 1920. Serial No. 361,804. 4 Claims. (Cl. 256—57.)



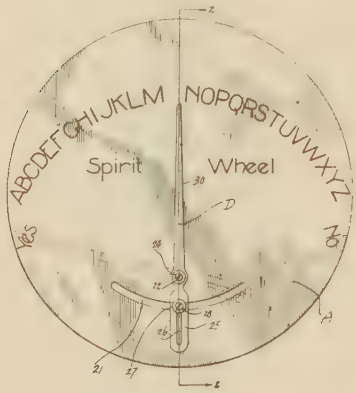
1. The combination with a hollow post provided with a series of perforations, of a series of fasteners, each to receive a wire and each having one free end to interlock in a perforation in the post and each having means for engagement with an adjacent fastener of the series, a spacer-member to receive a wire in the series of fasteners, and means for locking the series of fasteners in permanent position.

1,418,685. ADJUSTABLE STILT. ROBERT A. SUMMERS, Van Nuys, Calif. Filed Oct. 15, 1919. Serial No. 330,863. 2 Claims. (Cl. 135—53.1.)



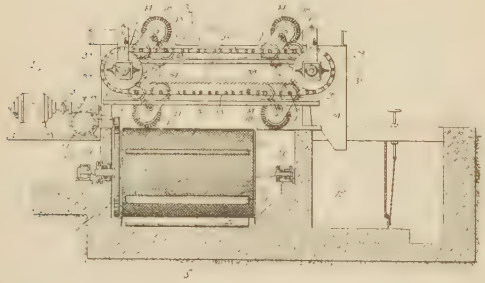
1. A stilt comprising a standard having a notched face, a slide movable upon said standard, a pawl pivoted to the slide and having a tip at its lower end adapted to engage the notches; said pawl being provided at its top with a recess between two lugs to accommodate the foot of the user, and also being provided with a stud on the side farthest away from the notched face of the standard; a strap fastened to the pawl on the side nearest to the standard and extending over the lugs and provided with one or more holes to engage the stud; and a runner fixed to said slide which projects below the slide and also projects above the level of the lug nearest to the standard so as to intercept said lug from entering said notches when the tip of the pawl is moved out of engagement with the notches when raising the pawl on the standard.

1,418,686. SPIRIT WHEEL. WILLIAM H. SWALLOW, Johnstown, Pa. Filed June 26, 1920. Serial No. 391,859. 10 Claims. (Cl. 46—41.)



1. In a spirit wheel, the combination of a base, a wheel pivoted upon said base, an indicating arm pivoted upon said wheel, and means mounted upon said base and engaging said indicating arm whereby the indicating arm assumes various positions with respect to the wheel upon oscillation of the wheel upon its pivot.

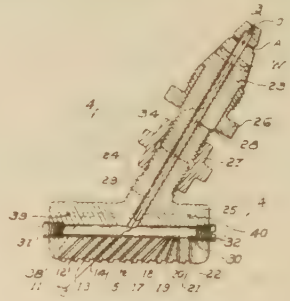
1,418,687. FILTRATION APPARATUS. MARCUS B. TARK, Philadelphia, Pa., assignor to Pacific Flush Tank Company, Chicago, Ill., a Corporation of Illinois. Carved out of application Serial No. 77,978, filed Feb. 12, 1916, on which Patent No. 1,188,340 was granted June 20, 1916, and filed after grant of the patent. This application filed June 19, 1918. Serial No. 240,780. 8 Claims. (Cl. 15—21.)



3. In a device of the class described, a pair of endless chains, shafts connecting the chains, brushes connected to the respective shafts, a pair of arms by which each brush is suspended from its shaft, and means to adjust the angle of inclination of the arms.

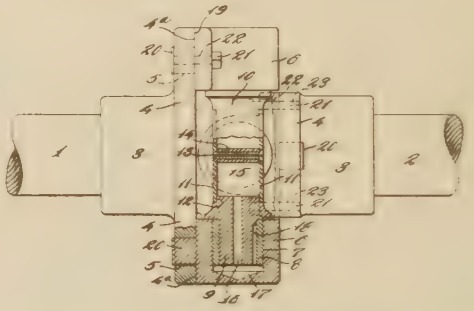
1,418,688. WELDING TORCH. JOSEPH C. THEBERATH, Cleveland, Ohio, assignor to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 29, 1919. Serial No. 286,189. 3 Claims. (Cl. 158—27.4.)

1. In apparatus of the class described, a torch tip comprising a shank for attachment to a holder and having a fuel conducting passage therein, an extended body integral with said shank and having an opening extending therethrough which communicates with the passage in



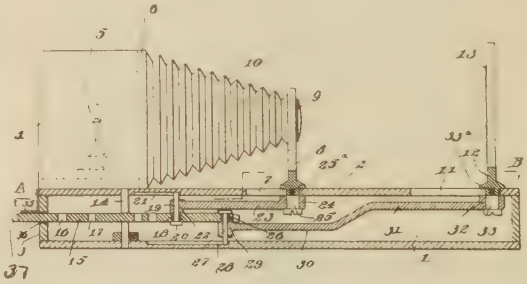
the shank and discharge orifices leading from said opening, and means for closing the ends of the opening.

1,418,689. UNIVERSAL JOINT. WILLIAM H. THIEMER, Cleveland, Ohio, assignor to The Peters Machine & Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 19, 1919. Serial No. 305,332. 2 Claims. (Cl. 64—102.)



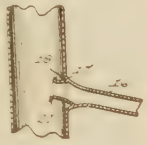
2. In a universal joint, the combination of a hub having a base flange, said flange having a seat and said seat having a recess extending outwardly from the inner face thereof and partly through the same, a bearing block for said seat having a face adapted to cooperate with such seat and provided with a recess adapted to register with the recess in such seat, a cylindrical locking key adapted to be inserted in the registering recesses of said seat and block, and means for securing the bearing block to said flange and upon its seat.

1,418,690. PHOTOGRAPHIC ENLARGER. LUMAN T. THURBER, Brookline, Mass. Filed Jan. 15, 1921. Serial No. 437,444. 10 Claims. (Cl. 88—24.)



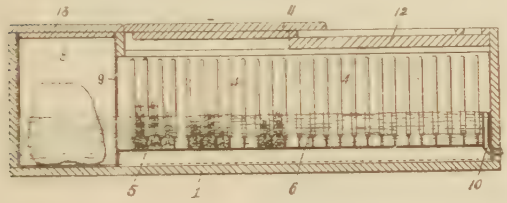
1. A photographic device comprising a lens holder and a screen, a rotatable cam member having a pair of spiral cam elements of unlike contour, followers engaging said elements, and connections between the respective followers and said lens holder and screen respectively.

1,418,691. DISTILLING APPARATUS. PAUL ANDERS and PAUL MEADE GINNINGS, Urbana, Ill. Filed Feb. 25, 1921. Serial No. 447,726. 3 Claims. (Cl. 23—3.)



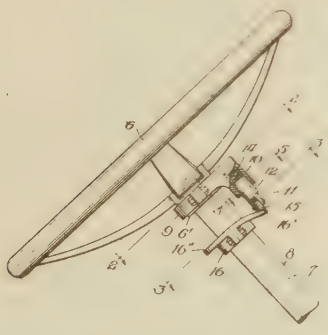
1. A distilling head of the character described, comprising a main column, a stopper closing the upper end of said column, a branch tube having its end made integral with the wall of said main column, an extension on the inner end of said branch tube extending onto said main column to approximately the center thereof, and a circular lip upon the extreme outer end of the extension, substantially as described and for the purpose set forth.

1,418,692. BOTTLE-COOLING CHEST. LORING H. BANNISTER, Toledo, Ohio. Filed Sept. 20, 1920. Serial No. 411,449. 1 Claim. (Cl. 62—35.)



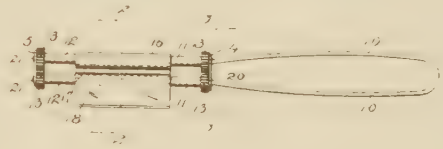
In a cooling means of the class described, a box having removable covers and an ice receiving chamber at one end, a bottle container disposed within the box and having a plurality of stalls interiorly thereof along its opposite sides with the stalls vertically disposed and inwardly inclined from top to bottom with their inner sides open to the interior af the container to permit the projection of bottle necks therethrough when disposed in reclining position one over another in the stalls, the inner edges of the stalls being broadened except at the bottoms thereof to permit the lateral withdrawal of the lowermost bottle only of a vertical row from a stall, the bottoms of the stalls being inwardly and upwardly inclined and the tops of the stalls being open, the container having an end open to the ice chamber to permit the flow of a cooling liquid from the ice chamber through the container in submerging relation to the lower bottles in the stalls.

1,418,693. AUTOMATIC STEERING DEVICE FOR MOTOR VEHICLES. PERRY S. BAUER, Chicago, Ill. Filed Sept. 1, 1920. Serial No. 407,448. 7 Claims. (Cl. 74—33.)



1. In a steering gear, a steering shaft, a steering wheel for rotating said shaft, a fixed cam having a seat and similar cam faces on each side of said seat, and means carried by said steering shaft adapted to cooperate with said cam to normally maintain said steering wheel in position to direct the vehicle in a straight line.

1,418,694. RAZOR-BLADE HOLDER. EUGENE BETZ, Newark, N. J., assignor of one-half to Henry Kopp, Orange, N. J. Filed July 1, 1921. Serial No. 481,778. 2 Claims. (Cl. 51—153.)



1. A razor blade holder comprising a handle formed of wire bent into a loop with its ends projecting to form parallel axles, sleeves rotatably arranged on said axles and having pinions in mesh to rotate the sleeves in unison, means for holding the sleeves against longitudinal movement, and a radially arranged blade-holding clip on one of said sleeves.

1,418,695. METHOD FOR TREATING BRAKE AND TRANSMISSION BANDS. WALTER K. BOILEAU, Baltimore, Md., assignor to Pittsburgh Oil Refining Corporation, a Corporation of Delaware. Filed Apr. 18, 1922. Serial No. 555,388. 3 Claims. (Cl. 87—9.)

1. The method of treating brake and transmission bands of textile fabric used in connection with a planetary transmission to keep the bands soft and pliable which consists in maintaining in the transmission casing a bath consisting of a petroleum oil of substantially the consistency of internal combustion engine cylinder oil, combined with saponifiable material.

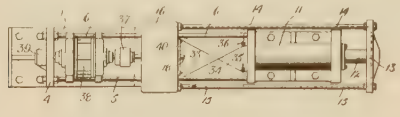
1,418,696. BLOTTER ATTACHMENT FOR FOUNTAIN PENS. ZEPHER J. BRICONNIER, San Francisco, Calif., assignor of one-half to Max Cohn, San Francisco, Calif. Filed Nov. 24, 1920. Serial No. 426,196. 7 Claims. (Cl. 120—42.)

3. A blotter attachment of the character described comprising in combination a fountain pen cap having both ends open, a cap tnreaded on the outer end thereof, a spindle journalled in said cap and extending into the fountain pen cap, a resilient strip having one end pivotally secured on the spindle and free to be swung so that it is disposed in alignment with the inner portion of the spindle, a blotter strip having one end held between said resilient strip and spindle and extending through a slot formed longitudinally of the cap and extending from the outer end of the fountain pen cap to a point approximately even with the inner end of the spindle, and a tubular member detachably secured to the other end of the blotter.

1,418,697. TUBE AND ROD TAPERING. LOUIS H. BRINKMAN, Glenridge, N. J., assignor, by mesne assignments, to General Seamless Tube Company, Bloomfield, N. J., a Corporation of Delaware. Filed Feb. 11, 1919. Serial No. 276,321. 8 Claims. (Cl. 80—12.)

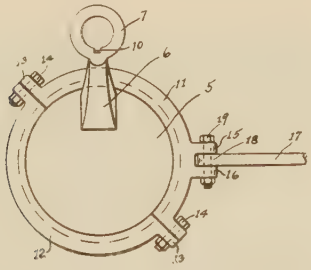
1. In metal drawing apparatus, the combination with a frame of a motor thereon, a chuck driven thereby for securing the work in driving relation to the shaft of said

motor, said work being co-axial with said shaft, a thrust bearing for resisting longitudinal movement of said shaft and work, a die or pass adapted to act upon the work and comprising a casing, balls encircling the work and ball positioning means comprising a ring encircling the balls and having its ball engaging surface tapered longitudinally



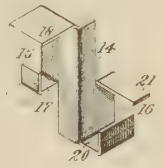
of the work, gear teeth upon said ring, a gear engaging with said gear teeth, a shaft mounted in said casing and upon which said gear is mounted, a crank arm extending from the last mentioned shaft, a link from said crank arm to said frame, a fluid pressure cylinder and means connecting said die or pass with said cylinder for moving the said die along said frame.

1,418,698. ECCENTRIC STEERING DEVICE FOR MOTOR VEHICLES. MONROE A. CAMERON, Broadview, Mont. Filed Aug. 3, 1921. Serial No. 489,466. 3 Claims. (Cl. 74—79.)



1. The combination with a steering shaft and a tie rod adapted to be oscillated thereby, of an L-shaped crank arm adapted to be secured to said shaft, an eccentric disk attached to the end of said crank arm, and motion transmitting connections between said eccentric and said tie rod.

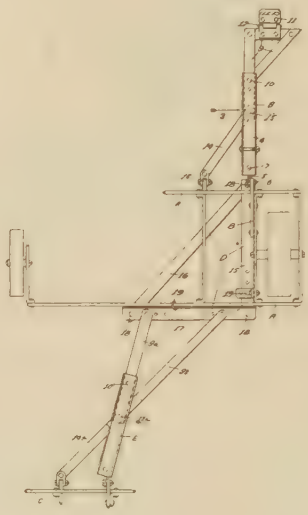
1,418,699. FASTENING ELEMENT. CORNELIUS COLLINS, Burlingame, Calif. Filed Oct. 30, 1919. Serial No. 334,438. 5 Claims. (Cl. 189—35.)



1. In combination with a pair of structural elements adapted to cross each other at an angle, a clip having connected body panels extending vertically and against which one side face of the structural elements may rest in their angular position, hook-shaped ledges formed at the bottom of said panels adapted to provide a permanent seat for said channel elements and to hold them against the panels and foldable tangs formed at the top of each of said panels and adapted to be struck downwardly over the structural elements to hold them in their intended position.

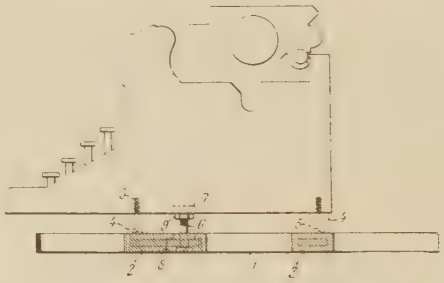
1,418,700. TRAILER HITCH FOR HARVESTERS AND THE LIKE. WILLIAM E. COOK, Minneapolis, Minn. Filed May 9, 1921. Serial No. 468,013. 1 Claim. (Cl. 280—3.38.)

In a device of the class described and in combination with a harvester frame, an independently formed draft frame suspended under said harvester frame, said draft frame being in the form of a right angle triangle with one leg thereof lying in a longitudinal direction with the direction of movement of the harvester frame and the other



leg forming a transverse draft beam at the rear of the harvester frame for connection with a hitch adapted to draw a second harvester frame in offset tandem relation to the first harvester frame.

1,418,701. TYPEWRITER SUPPORT. CORNELIUS B. CORCORAN, New York, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 21, 1920. Serial No. 375,491. 4 Claims. (Cl. 45—52.)

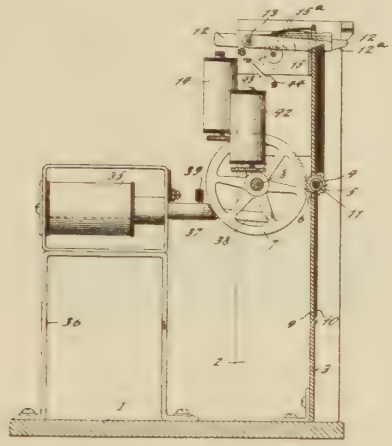


1. The combination, in a typewriter-desk having in the front and top thereof an open well extending vertically through the desk, of a typewriter-supporting open skeleton-frame carried by the desk within the well below the level of the top of the desk, the well being left freely open through the desk below said skeleton-frame whereby the vibrations produced in operating the machine cannot result in noise-producing resonance in the means for supporting the machine, and also so that the noise produced in the machine itself can freely escape downwardly through the openings in said skeleton-frame and be dissipated.

1,418,702. ANNUNCIATOR. WILLIAM T. DIPPEL, New York, N. Y. Filed May 5, 1920. Serial No. 378,989. 21 Claims. (Cl. 177—327.)

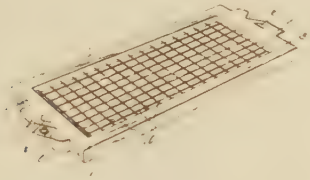
1. In an annunciator system, the combination of a signal display device having parts adapted to assume a non-display and a plurality of different relative display positions, means for normally holding the parts against move-

ment from non-display position, a cam, means for setting said cam to a selected position, means controlled by the



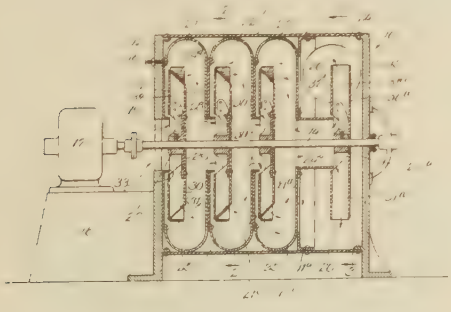
cam for selectively determining the number of parts which will be released, and means for then releasing said parts to permit them to move to display position.

1,418,703. MOLDER'S MATCH PLATE. JOHN J. EVANS, Tacoma, Wash. Filed June 9, 1921. Serial No. 476,167. 3 Claims. (Cl. 22—157.)



1. A match-plate frame consisting in a rectangular metal frame having a central opening, a plurality of wires fixed in the sides of said frame and crossing said opening.

1,418,704. COMPOUND TURBINE BLOWER. EDWARD D. GREEN, Chicago, Ill. Filed Apr. 11, 1921. Serial No. 460,578. 7 Claims. (Cl. 230—11.)

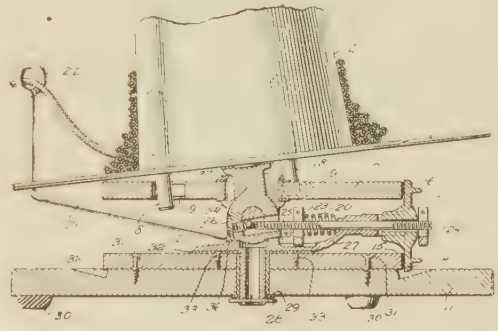


1. A blower comprising, a fan casing having an axial inlet opening and a tangential discharge opening, a shaft, and a fan thereon revoluble in said casing and comprising radially extending discs, one of which has an axial opening communicating with the inlet opening of the casing, and radial fan blades extending transversely between said discs in planes parallel with said shaft, said fan blades having end portions extending beyond the edge of one disc and thereat angularly disposed with respect to the portions of the blades within the marginal edge of said disc.

1,418,705. CARRY BAG. ROBERT C. GROH, St. Paul, Minn., assignor to Walter H. Deubener, St. Paul, Minn. Filed Nov. 20, 1920. Serial No. 425,402. 11 Claims. (Cl. 229—54.)

1. In combination with the edge of a bag, a reinforcing strip therefor, and means issuing downwardly from the central portion of said reinforcing strip for attaching the carrying handle thereto.

1,418,706. REELING DEVICE. LEON N. HAMPTON, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 13, 1920. Serial No. 430,132. 10 Claims. (Cl. 242—99.)

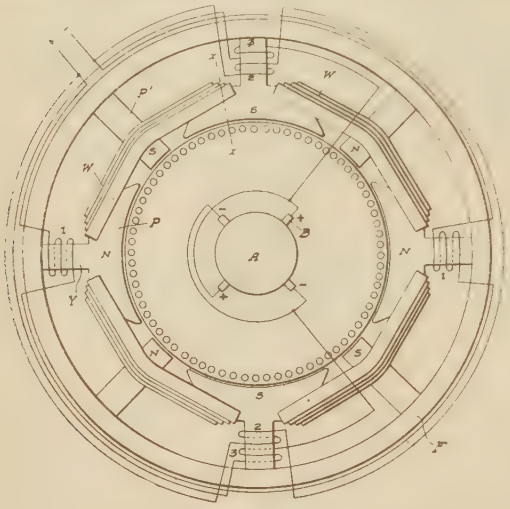


2. A reeling device comprising a fixed brake drum, a second brake drum rotatable with respect to said fixed drum, a pivoted reel adapted to rotate in unison with said second drum, a friction member adapted to engage said brake drums, a spring member adapted to exert a force upon said friction member to hold said member in engagement with said brake drums, and means actuated by the tipping action of said reel for controlling the action of said spring member.

1,418,707. CONSTANT-CURRENT GENERATOR FOR ARC WELDING. KLAUS L. HANSEN, Milwaukee, Wis. Filed June 27, 1921. Serial No. 480,598. 12 Claims. (Cl. 219—13.)

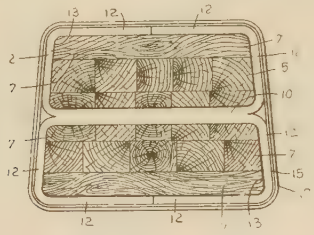
1. In an arc welding generator, an armature having an increased number of turns, a field provided with main

poles and commutating poles, and auxiliary windings extending from adjacent main poles about the commutating



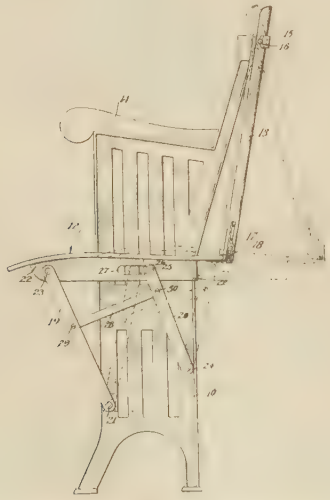
poles to distort the main field and increase the reactance of the load circuit.

1,418,708. COATING FOR RAILROAD TIES AND METHOD OF APPLYING THE SAME. GEORGE H. HARDMAN, Fall River, Mass. Filed Apr. 5, 1922. Serial No. 549,919. 4 Claims. (Cl. 238—83.)



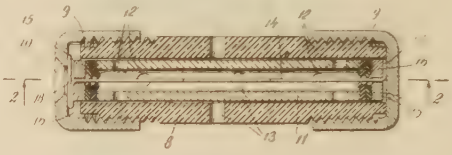
1. In a rail-road tie, the combination of the body and a coating of asphalt and asbestos enclosing the body.

1,418,709. OPERA CHAIR. MORRIS HARDMAN, San Francisco, Calif. Filed Mar. 2, 1921. Serial No. 449,115. 3 Claims. (Cl. 155—115.)



1. A chair comprising a frame, a seat, rails disposed beneath the seat and secured thereto, links pivotally connected to the seat adjacent the forward end thereof, second links pivoted at one end of the frame at the rear thereof, slotted openings in the rails, the second links provided with projections entering within the openings in the rails, a crossbar connecting the respective pairs of links for holding the same in parallel relation to each other whereby the seat will be supported for horizontal shifting movement.

1,418,710. FUSE. WILFORD J. HAWKINS, Montclair, N. J. Filed Feb. 25, 1920. Serial No. 361,317. 7 Claims. (Cl. 200—128.)

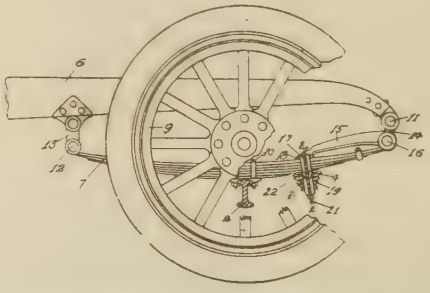


1. A fuse comprising the combination of an outer tube, an inner tube therein whose exterior diameter is less than the interior diameter of the outer tube so that a space is provided between the two tubes, said tubes having openings therethrough which are spaced apart lengthwise of the fuse washers of heavy paper engaging the ends of the inner tube, a fusible link passing through the inner tube and paper washers and end caps on the outer tube to which the ends of the link are electrically connected.

1,418,711. CASTER. WALTER F. HEROLD, Newark, N. J., assignor to The Bassick Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Aug. 4, 1921. Serial No. 489,686. 9 Claims. (Cl. 16—39.)

6. In a caster, the combination of a leg-supporting plate, a vertical spring-frame retaining member extending centrally from said plate and a spring frame comprising a transverse top portion and arms at opposite sides thereof, said frame being retained in position by said vertical member, and said arms being twisted to position the lower edges thereof in planes which extend at angles to the upper edges thereof.

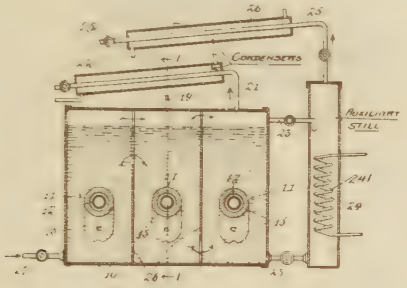
1,418,712. SHOCK ABSORBER. ARTHUR C. HOPKINS, Minneapolis, Minn. Filed May 12, 1921. Serial No. 468,975. 8 Claims. (Cl. 267—16.)



1. The combination with a vehicle frame, of a spring disposed longitudinally thereunder and flexibly connected

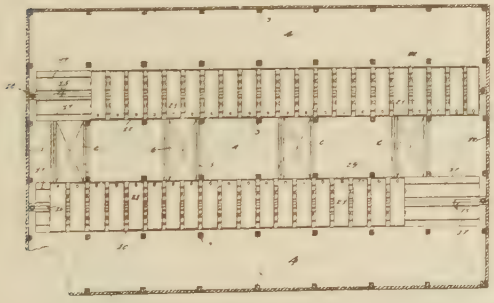
at one end to the frame, a bent lever fulcrumed to the other end of the spring and having an upstanding arm pivotally secured to the frame, a second spring co-actively engageable at one end with the first mentioned spring and at its other end with the other arm of the lever for yieldingly retaining the latter with its upstanding arm in substantially vertical position.

1,418,713. PROCESS OF AND APPARATUS FOR CRACKING OILS. GEORGE L. HOXIE, Upper Montclair, N. J. Filed Aug. 9, 1918. Serial No. 249,077. 11 Claims. (Cl. 196—25.)



2. The process of treating liquid hydrocarbon which consists in heating a relatively small quantity of liquid hydrocarbon to a temperature sufficient to crack the same; mixing said heated liquid immediately, and without separation of the lighter products produced by such heating therefrom, with a relatively large quantity of liquid hydrocarbon the temperature of which is maintained throughout such heating operation at a temperature substantially below the temperature to which the small quantity of liquid hydrocarbon is subjected; and removing the lighter products from the mixture thus produced by distilling the said mixture.

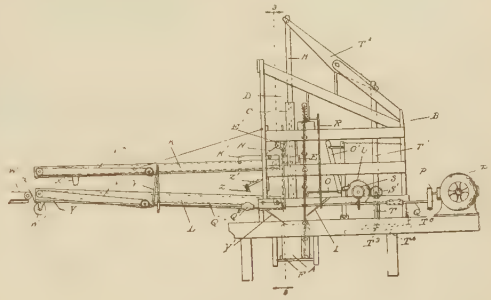
1,418,714. GARAGE BUILDING. THOMAS Z. HUMPHRIES, Detroit, Mich. Filed Dec. 6, 1919. Serial No. 342,977. 3 Claims. (Cl. 20—1.13.)



1. In a storage building, superposed floors, elevators arranged in a central longitudinal vertical plane of the building to reach said floors and serve either side of the building, and independently operated platforms adjacent said elevators and shifted laterally of said floors and capable of serving any one of the elevators.

1,418,715. ICING MACHINE. PEYTON R. JANNEY, Detroit, Mich., assignor to Mills Baking Company, Detroit, Mich., a Corporation of Michigan. Filed June 11, 1920. Serial No. 388,087. 14 Claims. (Cl. 91—4.)

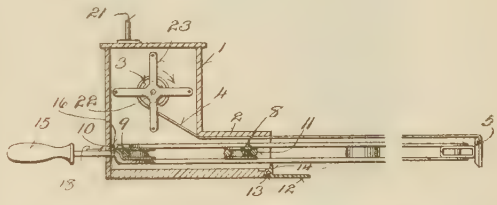
1. An apparatus for icing baked articles comprising a receptacle of dimensions but slightly in excess of those of the articles to be coated, means for maintaining constant level of the icing in said receptacle, and means for periodically immersing the articles to be iced in said receptacle.



6. In an icing machine, the combination with a receptacle for the icing, and means for dipping the articles to be iced therein, of a carrier for the articles to said dipping means, and means for removing the crumbs from said carrier.

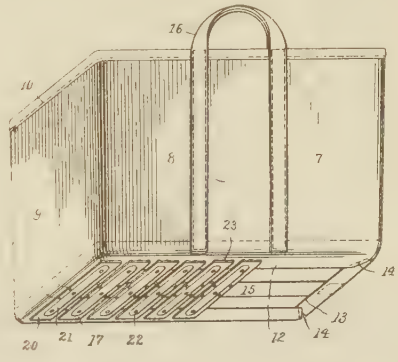
9. In an icing machine, the combination with a receptacle for the icing and means for dipping the articles to be coated therein, of means for conveying the iced articles from said dipping means, and means mounted above for automatically removing the surplus icing from the top of each iced article during the travel of the same.

1,418,716. AUTOMATIC GRAVE CLOSURE. CHARLES J. JANSKY, Two Rivers, Wis. Filed Sept. 3, 1921. Serial No. 498,367. 4 Claims. (Cl. 27—30.)



1. A grave closure comprising a housing adapted to be placed at one end of the grave, a roller in the housing and having a curtain mounted thereon, a door at the front side of the housing, means for projecting and retracting the curtain through the doorway for covering or uncovering the grave and means carried by said first mentioned means for opening and closing the door.

1,418,717. COAL BAG. HARRY JOSEPHSON, Bridgeport, Conn., assignor to The Josephson Bag Company, Bridgeport, Conn. Filed Jan. 6, 1921. Serial No. 435,419. 7 Claims. (Cl. 150—18.)

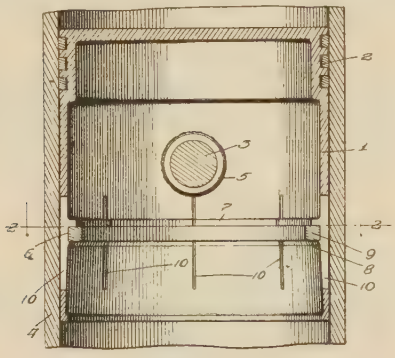


1. A coal bag comprising a flexible body open at its lower end and a rollable bottom consisting of spaced apart, disconnected slats having draining spaces therebetween, each of said slats being secured to said flexible body.

1,418,718. PROCESS OF MAKING A PHENOLIC CONDENSATION PRODUCT. DONALD S. KENDALL, East Orange, N. J., assignor to Condensite Company of America, Bloomfield, N. J., a Corporation of New Jersey. Filed May 10, 1920. Serial No. 380,114. 6 Claims. (Cl. 106—22.)

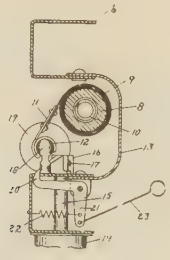
1. The method of forming a phenolic condensation product which comprises forming a liquid mass consisting of phenol, formaldehyde and water with hexamethylentetramin dissolved therein, the formaldehyde being sufficient to react with the phenol to form a fusible resin and the hexamethylentetramin being sufficient to react with such resin to form an infusible product; and causing the mass to be heated to cause reactions between the phenol, formaldehyde and hexamethylentetramin resulting in the production of a fusible resin containing hexamethylentetramin in solution and containing substantially no uncombined formaldehyde.

1,418,719. ENGINE PISTON. CHARLES Y. KNIGHT, Pasadena, Calif., assignor to The Knight-American Patents Company, Chicago, Ill., a Corporation of Delaware. Filed June 12, 1918. Serial No. 239,500. 7 Claims. (Cl. 74—108.)



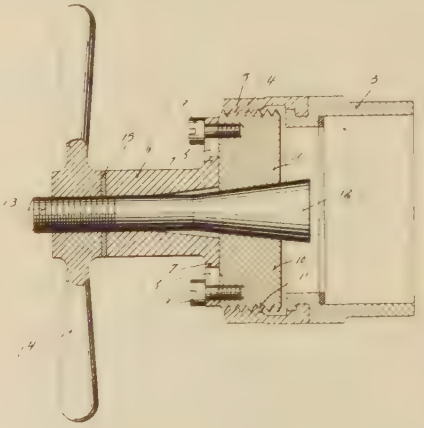
1. In combination, a piston, a cylinder in which said piston operates, said piston and cylinder being composed of metals having different co-efficients of expansion, and a member within said piston and arranged to exert outward pressure thereon to control the expansion of said piston under changing degrees of temperature.

1,418,720. SAFETY APPLIANCE. ROY E. LANGMACK, Minneapolis, Minn. Filed Feb. 27, 1922. Serial No. 539,586. 7 Claims. (Cl. 293—25.)



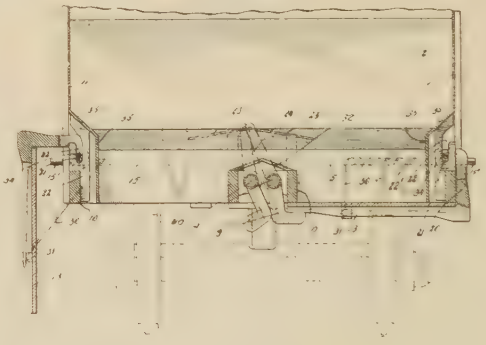
1. A device of the class described, consisting of a roller suitably mounted on the front end of a motor vehicle, an apron wound on said roller, a rigidly formed edge member on the end of said apron, supporting arms positioned under said roller and pivotally mounted at their outer ends to a rigid support, said arms having joints near their outer ends, and means for swinging the inner ends of said arms forward together with said apron.

1,418,721. COUPLING EXPANDER. HIRAM A. LARSON, Manitowoc, Wis., assignor of one-third to Arthur J. Rahn and one-third to Nels P. Petersen, both of Manitowoc, Wis. Filed Nov. 9, 1920. Serial No. 422,863. 1 Claim. (Cl. 153—80.)



A tool for expanding a coupling member comprising segmental dies with a radius of curvature approximately the same as that of the coupling member, a longitudinally bored cylindrical member with an annular flange at one end having radial slots extending therethrough, means carried in the slots for supporting the dies, a tapered member extending axially between the dies and through the bore in the cylindrical member, and means for forcing said tapered member further between the dies to force the latter outwardly into engagement with the coupling member.

1,418,722. COAL CAR. ADOLF LEU, Hoboken, N. J. Filed Jan. 19, 1922. Serial No. 530,282. 7 Claims. (Cl. 105—250.)

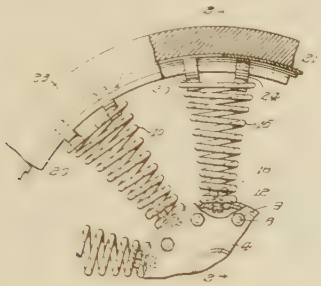


1. A car for coal or the like, having a laterally swinging sectional bottom whose fulcrums are arranged at an elevation above the base frame, freely rotatable spindle formed with means engaging said bottom in closed position and means operatively connected to said spindles and adapted to be detachably connected to stationary parts of the car for locking said rotatable spindles in operative position.

1,418,723. RESILIENT WHEEL. EDWARD MCCONVILLE, Philadelphia, Pa. Filed Dec. 6, 1920. Serial No. 428,434. 6 Claims. (Cl. 152—29.)

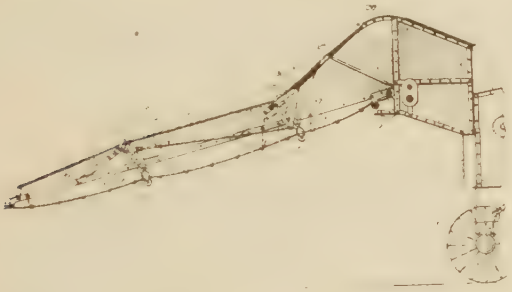
6. A resilient wheel comprising a hub portion, a plurality of radially disposed coil springs extending outwardly from said hub portion, the thickness of the material of which each spring is formed gradually diminishing in thickness outwardly from the hub to render the cross

sectional diameter of the material adjacent the hub greater than the diameter of the material at the outer ends of the



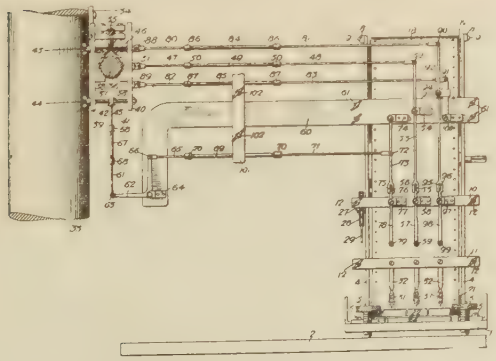
springs, a spring seated against the outer extremity of each of said radial springs, and a tire supported from said last mentioned springs.

1,418,724. SELF-FEEDER FOR THRASHING MACHINES. WALLACE F. MACGREGOR and NORMAN R. KRAUSE, Racine, Wis., assignors to J. I. Case Threshing Machine Company, Racine, Wis., a Corporation. Filed Mar. 9, 1921. Serial No. 450,848. 4 Claims. (Cl. 198—113.)



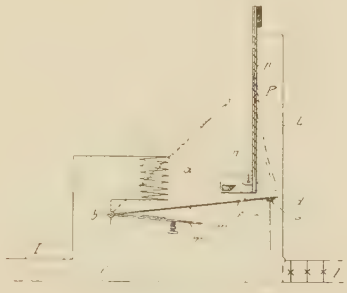
4. In a carrier for self-feeders, a carrier section secured thereto, a second section connected to said first-mentioned section, flexible means connecting said two sections, a third section connected to said second section, a brace secured to said third section, and means connecting said brace and said flexible means to permit said third section to be swung under said second section whereby said third and second sections may by the action of said flexible means be folded upon each other and beneath said first section.

1,418,725. RECORDING INSTRUMENT. DAVID T. MAY, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 29, 1920. Serial No. 369,482. 7 Claims. (Cl. 234—1.)



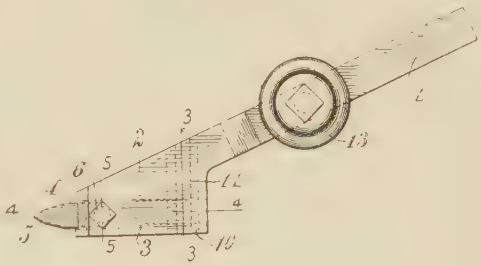
2. A motion analyzing and recording apparatus comprising a frame adapted to clamp about the body whose motion is to be analyzed; a system of bars and levers for each component of such motions, a set of recording styli each of said systems cooperating with said frame to produce a magnified motion in a corresponding stylus, a record sheet adapted to pass under such styli and receive the record of the component motions therefrom; and means for producing motion in said record sheet.

1,418,726. ELECTRIC-CURRENT CONTROLLER. ERNEST NAETHER, Vevey, Switzerland. Filed Apr. 4, 1921. Serial No. 458,462. 4 Claims. (Cl. 175—294.)



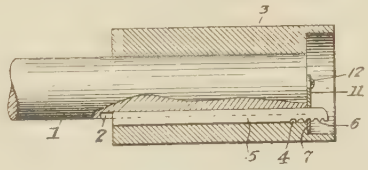
1. Electric current controller, characterized by the feature that on overload the main current is periodically interrupted in such manner that interruptions of relatively long duration, corresponding to the heating and cooling periods of an electrically heatable cut-in thermostat alternate with instantaneous closures of the main circuit.

1,418,727. METAL-CUTTING-MACHINE TOOL. GEORGE C. NETH, Dayton, Ohio. Filed July 14, 1920. Serial No. 396,132. 1 Claim. (Cl. 29—99.



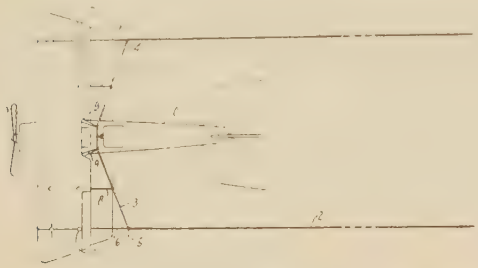
In a device of the character described, a wedge shaped head, a shank extending from the wide end and in alinement with one side thereof, said head having an opening adapted to receive a cutting element lying parallel with the other side of said head and at an angle to said shank, means for holding said cutting element in said opening, said head having a kerf and a socket extending across the wide portion thereof, said kerf opening through the under side thereof, lying at a right angle to the opening for the cutting element and permitting the forward portion of the head and the cutting element to yield, said socket being adapted to receive bushings of different resilience.

1,418,728. PULLEY KEY BLOCK. HANS W. OLSEN, Momence, Ill. Filed July 14, 1921. Serial No. 484,792. 3 Claims. (Cl. 287—53.)



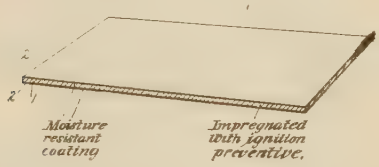
1. In combination with a shaft and pulley having key grooves a key lock comprising a key member having teeth and locking means mounted upon the pulley and adapted to engage between the teeth.

1,418,729. PORTABLE RADIATING SYSTEM. ARTHUR A. OSWALD, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 25, 1919. Serial No. 292,691. 5 Claims. (Cl. 250—33.)



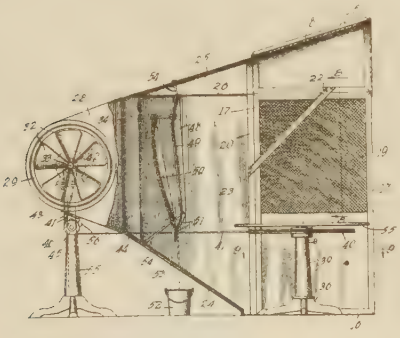
1. An antenna for an aeroplane or the like having a metallic structure, said antenna comprising a plurality of trailing wires supported from the outer portions of the wings of said aeroplane and connected in parallel relation against said metallic structure as a counterpoise.

1,418,730. INSULATING MATERIAL AND METHOD OF MAKING SAME. ROBERT E. OTTMAN, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 10, 1917. Serial No. 206,453. 3 Claims. (Cl. 91—68.)



1. The method of forming an electrically insulating material which consists in impregnating a non-conductive fabric with a solution of borax and ammonium phosphate, drying the impregnated fabric, and coating said fabric with a mixture of calcium carbonate, zinc oxide and linseed oil.

1,418,731. PAINTING-BOOTH APPARATUS. JENS A. PAASCHE, Chicago, Ill. Filed July 5, 1917. Serial No. 178,526. 29 Claims. (Cl. 91—60.)



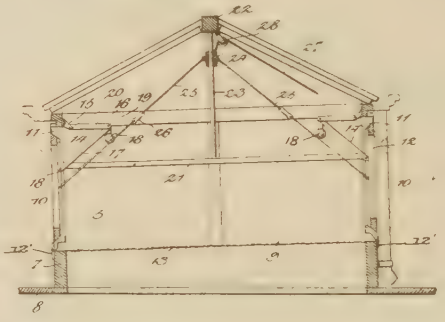
2. In an apparatus of the character described, a booth open at its forward side and comprising a plurality of separable sections arranged when knocked down to be piled in a compact bundle for transportation or storage, the booth comprising a top section, two sides, a rear portion which converges or tapers rearwardly, said rear portion being composed of a bottom section, two side sections and a top section, each of which has its edges converging rearwardly, the said converging edges of said sections being secured together, and conduit means communicating with the smaller rear end of said tapering portion.

14. An apparatus of the character described comprising, in combination, a booth, a horizontally disposed rotary table therein upon which an article to be coated may be mounted, an exhaust conduit communicating with said booth, a fan for exhausting air from the booth through said conduit, a motor arranged to drive said fan, and a driving connection between the motor and said table for rotating the latter on a vertical axis.

16. An apparatus of the character described comprising, in combination, a booth adapted to receive an article to be coated, means for drawing off air and vapor from said booth, and baffle plates mounted in the booth and in the path of the air flowing toward said drawing off means, said plates comprising a front plate having a central aperture and an imperforate rear plate, positioned behind the aperture in the front plate, said plates being shaped at their lower portions, to conduct the condensed paint into a receptacle.

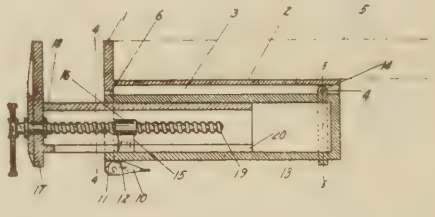
19. An apparatus of the class described having, in combination, two painting booths arranged on opposite sides of a discharge chamber, said discharge chamber having opposed openings communicating directly with said opposed painting booths, means for closing either opening and means for exhausting air from said discharge chamber.

1,418,732. SASH-OPERATING MECHANISM. JOSEPH A. PETERMAN, Brooklyn, N. Y. Filed Aug. 12, 1920. Serial No. 403,065. 5 Claims. (Cl. 189—50.)



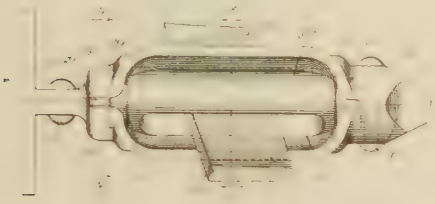
1. A structure having an opening, a sash movable over said opening, a pair of weighted sash moving links between the sash and the structure, a fusible device for holding the sash closed against the action of said links and means included in the links for cushioning the movement of the sash, said links pivoted together and one of said links having pivotal connection with the structure above the said opening, and the other of said links having pivotal connection with the said sash.

1,418,733. VISE. OLAF S. PETTERSON, Denver, Colo. Filed Sept. 25, 1920. Serial No. 412,749. 3 Claims. (Cl. 81—41.)



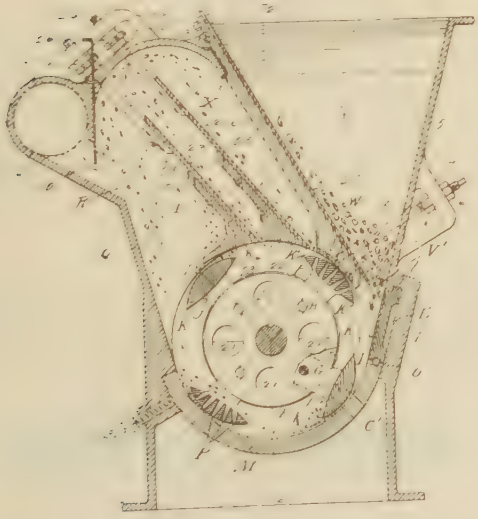
1. A vise of the class described, comprising a barrel, means for pivotally connecting the barrel with a bench, an outer jaw adjustably associated with the barrel, an inner jaw fixed to the bench, and means carried by the inner jaw for swinging the barrel and associated jaw vertically, as and for the purpose set forth.

1,418,734. REVERSIBLE FULCRUM. ARMAND H. PEYCKE, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Nov. 17, 1919. Serial No. 338,522. 9 Claims. (Cl. 188—232.)



5. A brake beam reversible fulcrum including a post continuous between the tension and compression members, a lever-engaging member movable from one operative position to another, and means at one end of said member for locking said member in both of said operative positions.

1,418,735. FINE GRINDER. HAROLD M. PLAISTED, St. Louis, Mo., assignor of forty-nine one-hundredths to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo., a Corporation of Missouri. Filed Mar. 21, 1919. Serial No. 283,977. 13 Claims. (Cl. 83—11.)

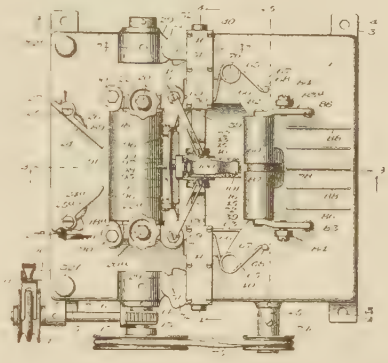


1. In a grinder provided with a cylindrical cage, having a rotor mounted therein, hammers mounted in the rotor, said hammers terminating at their free ends in heads having convex inner and outer surfaces, said outer surface being disposed substantially tangent to the inner surface of the cage.

1,418,736. SHOE MACHINE. FRED A. REARDON, Haverhill, Mass., assignor to Hamel Shoe Machinery Company, a Corporation of Massachusetts. Filed Sept. 25, 1918. Serial No. 255,672. 21 Claims. (Cl. 91—41.)

4. In a shoe machine, in combination, a pivotally mounted bracket having a shaft journaled therein, a hollow shaft or sleeve slidable upon said shaft and having a longitudinal slot therein, a pin fast in said shaft and engaging said slot, a spring within said hollow shaft or sleeve and bearing against the extremity of said shaft, and journal means for the hollow shaft or sleeve carried by the bracket.

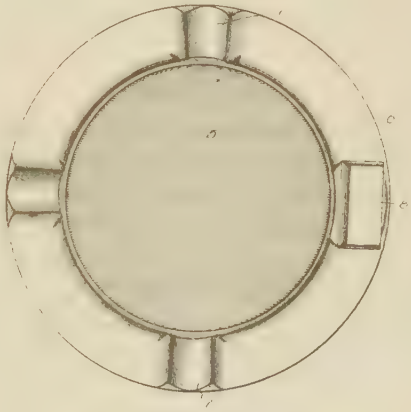
9. In a sole coloring machine, in combination, a rotary fluid applying brush, means for moving a sole relatively to said brush and into contact therewith to receive a coating of fluid therefrom upon its surface, restraining means for limiting the contact of said brush to that portion of the sole surface adjacent its edge, and means permitting adjustment of said brush toward and from the sole surface.



14. In a feeding device for shoe machines, a feed roll having a narrow face arranged for contact with a shoe sole along its central longitudinal portion only, means for driving the same, and a wide-faced pressure roll cooperating therewith.

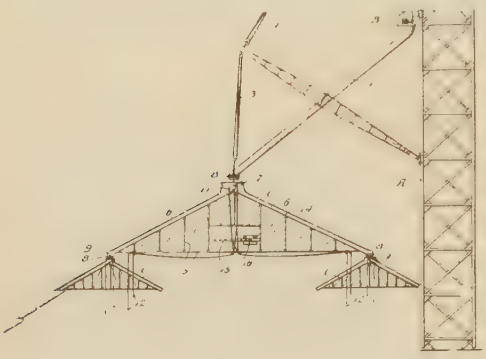
17. In a sole coloring machine, in combination, a fluid-applying device, means for feeding a sole into contact with said device, and means interposed between said device and said feeding means to prevent spattering of fluid upon the latter.

1,418,737. ASH TRAY. CLYDE W. REASNER, Chicago, Ill. Filed Jan. 28, 1921. Serial No. 440,569. 2 Claims. (Cl. 131—51.)



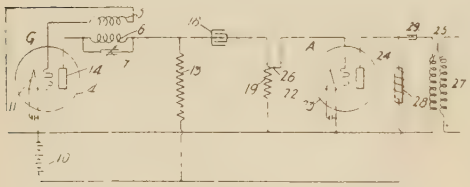
2. An ash tray of frangible material, having an ash pocket and a laterally extending marginal flange, the surfaces defining the pocket and the top of the flange being continued upwardly and inwardly meeting at an acute angle above the flange for providing a scraper edge.

1,418,738. CONCRETE-CHUTE DISTRIBUTING SYSTEM. JOHN F. ROBB, Cleveland Heights, Ohio. Filed Aug. 7, 1920. Serial No. 401,880. 15 Claims. (Cl. 193—29.)



1. In combination, a main distributing chute, and a chute unit communicating with the main distributing chute, said chute unit comprising oppositely extending counterbalancing chutes connected at adjacent ends.

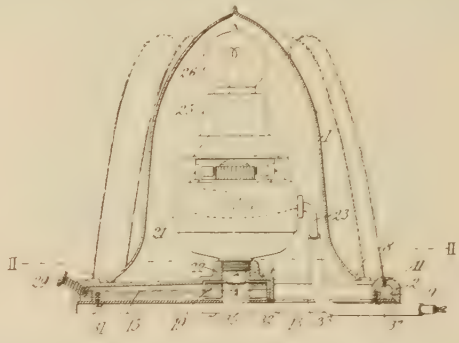
1,418,739. OSCILLATION GENERATOR. EDWARD O. SCRIVEN, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 4, 1917. Serial No. 172,646. 24 Claims. (Cl. 250—36.)



1. Means for producing oscillations comprising an electric discharge device, a source of space current for said device, an output circuit connected to said device for supplying the oscillations produced thereby, said output circuit having low impedance for the generated high frequency oscillations and having high resistance for the direct current from the space current source compared with the internal space current resistance of said device, whereby any tendency of the space current to vary is partially compensated by the variation in direct current voltage across the output circuit and the oscillations produced are maintained substantially constant in amplitude irrespective of such tendency.

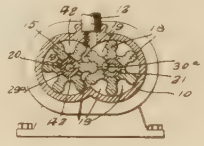
1,418,740. DISPLAY OR ADVERTISING DEVICE. WILLIAM GENTRY SHELTON, New York, N. Y. Filed Jan. 30, 1920. Serial No. 355,169. 7 Claims. (Cl. 299—4.)

1. A display or advertising device comprising a unitary base, a conduit comprised in the rim of and integral with said base having jet orifices leading from said conduit and adapted to direct upward streams of liquid from said base, and a motor-actuated pump for pumping water into said conduit, said base being adapted to rest in a shallow basin,



said base having a centrally located pump casing and a conduit leading from said pump casing to said first-named conduit.

1,418,741. ROTARY PUMP OR COMPRESSOR. GRANVILLE H. STALLMAN, Chicago, Ill. Filed Dec. 17, 1920. Serial No. 431,339. 14 Claims. (Cl. 103—44.)



14. An apparatus of the character described embodying a fluid receiving casing having an inlet and a discharge outlet, a rotary element in the casing provided with recesses forming chambers, said chambers each having a discharge outlet movable into and out of communication with the first said discharge outlet, and means co-operating with the said chambers for closing them, the said means operating to force the liquid from the chamber when the outlets are brought into communication.

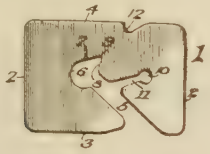
1,418,742. FLOOR CONSTRUCTION. CHARLES WHITNEY STEVENS, Chicago, Ill., assignor to Stevens Partition and Floor Deadener Co., Chicago, Ill., a Corporation of Illinois. Filed Mar. 10, 1917. Serial No. 153,968. 3 Claims. (Cl. 72—65.)

1. In a building floor construction, the combination with a level lower floor, of a plurality of cushioning supports on said lower floor having their supporting surfaces elevated well above the lower floor, nailing strips carried by said supports with their lower edges well above the lower floor, an upper floor laid on and secured to said nailing strips, and a filling of dry cinders substantially filling the space between said floors.

1,418,743. PACKAGE TIE. GEORGE W. STOUT, Merchantville, N. J. Filed Sept. 4, 1919. Serial No. 321,693. 1 Claim. (Cl. 24—18.)

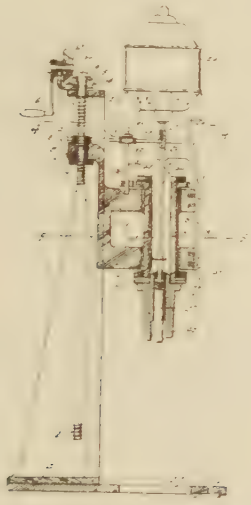
A package tie, comprising a tie body having an oblique slot entering one edge thereof and terminating near the middle of said body in converging walls which extend at an angle to said slot and meet at the apex 9 located out of alignment with said slot, and an inclined passage 11 with converging side walls merging into said slot and

terminating in an eye located substantially on the median line of said body, the diameter of said eye being greater



than the width of said passage at its terminal and the edge of said body opposite to said oblique slot having a recess therein located intermediately of said apex and eye.

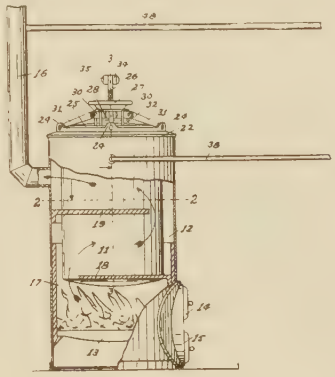
1,418,744. PORTABLE CYLINDER REBORING AND REGRINDING MACHINE. JAMES F. SWATZELL, Decatur, Ala. Filed Aug. 18, 1919. Serial No. 318,281. 2 Claims. (Cl. 51—245.)



1. In a portable cylinder reboring and grinding machine, a base having suitable means for being mounted on a cylinder to be bored, a vertical guide on said base, a carriage vertically adjustable on said guide, a sleeve eccentrically bored which is journaled in the carriage with its axis concentric with the cylinder to be bored, a sleeve eccentrically bored which is rotatable in said first mentioned sleeve, end fastenings to hold said sleeves in fixed relative position, a gear rigid with the outer sleeve, an electric motor mounted on the top of the carriage with the axis of its driving shaft concentric with the cylinder to be bored, a worm on said motor shaft, a feed for the carriage having a driving transmission comprising a worm shaft and a worm wheel driven by said worm, a flexible shaft extending through the inner of said sleeves and having a detachable connection with the lower end of the motor shaft, a worm gearing driven from said worm shaft and comprising a pinion meshing the gear on the outer sleeve, and means to detachably connect a tool shank to the lower end of the inner sleeve.

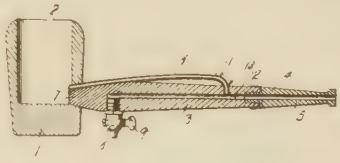
1,418,745. RETORT FOR GAS-PRODUCING APPARATUS. STANLEY F. SWORSKI and FELIX F. RATAJCZAK, Minneapolis, Minn. Original application filed Aug. 3, 1920, Serial No. 401,020. Divided and this application filed July 18, 1921. Serial No. 485,738. 3 Claims. (Cl. 48—111.)

1. In an apparatus of the class described, a furnace, a gas generating receptacle suspended in the upper part thereof, said receptacle having its bottom and lower wall portion of greater thickness than the upper wall portion,



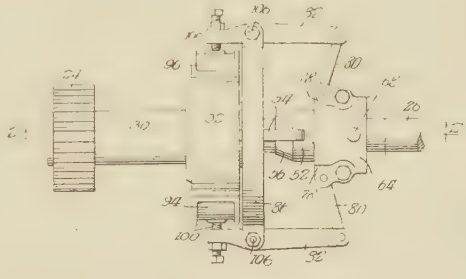
and a bucket adapted to fit snugly in the lower part of said receptacle.

1,418,746. PIPE. MATTHIAS THENIS, North Vernon, Ind. Filed Dec. 31, 1919. Serial No. 348,530. 2 Claims. (Cl. 131—12.)



1. A pipe stem of the class described provided with a threaded end for receiving a mouth piece, a longitudinally extending channel provided within said stem so as to communicate with said mouth piece and to terminate a distance from the other end of said stem, a pet cock communicating with said channel, a tapering groove provided in the surface of said stem and adjacent the bowl end therefor and a tube lying in said groove and extending over said stem, and bent downwardly so as to communicate with said channel.

1,418,747. COMBINED CLUTCH AND BRAKE. JOHN S. TOWNSEND, Harvey, Ill., assignor to Whiting Corporation, Harvey, Ill., a Corporation of Illinois. Filed May 7, 1921. Serial No. 467,567. 8 Claims. (Cl. 192—17.)

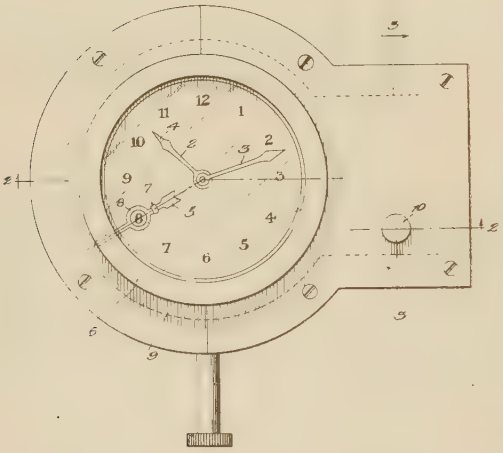


1. In mechanism of the class described, a brake pulley to be controlled, a pair of brake shoes oppositely disposed on

the pulley, levers supporting said brake shoes pivoted at a point at one side thereof, a lever arm support pivoted at substantially the same point as the brake shoe supporting levers, brake shoe operating levers on said lever arm support, one adjacent to each brake shoe, and means for operating the brake operating lever, for the purposes set forth.

8. In mechanism of the class described, a shaft, a ring around the shaft, a pivot for the ring at the side of the shaft permitting it to rock transversely of the shaft, a brake operating block reciprocatable on the shaft, levers in the plane of the axis of the shaft pivoted on the ring and rockable in and out from the shaft by reciprocation of the block, a brake wheel concentric with the shaft, brake shoes operated by the last mentioned levers movable to and from the brake wheel and a connection between each brake shoe and the pivot on which the ring rocks, a clutch inside the brake wheel adapted to connect the wheel and shaft and means passing from the brake wheel through the ring to the operating block, by which the brake operating block throws the clutch in action when the brakes are released and vice versa.

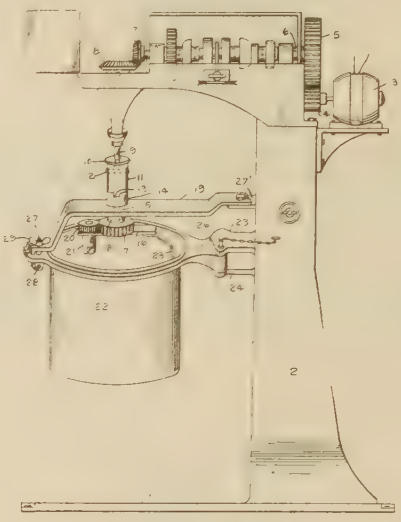
1,418,748. ELECTRIC TIME SWITCH FOR AUTO LIGHTS. BENJAMIN BAINBRIDGE TREGOE, East Orange, N. J., and JOHN DUDLEY CARROLL, New York, N. Y., assignors of one-third to Justin Henderson, New York, N. Y. Filed May 25, 1920. Serial No. 384,124. 10 Claims. (Cl. 161—1.)



1. In combination, an electric circuit, a circuit controlling means including a manually operable switch normally urged towards one of its limits, electrically actuated restraining means co-acting with the switch to hold it at its opposite limit, and a time controlled circuit for the electrically actuated restraining means, the switch capable of being manually manipulated to release it from the restraining means.

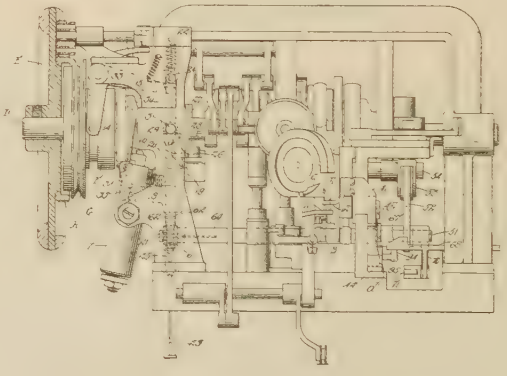
1,418,749. FOOD MACHINE. JOSEPHINE TRUST and HENRY TRUST, Park Ridge, N. J., assignors, by mesne assignments, to Meteor Mixing Machine Co., Inc., a Corporation of New York. Filed Aug. 22, 1919. Serial No. 319,052. 2 Claims. (Cl. 259—107.)

1. In a machine of the class described, a swinging bracket for carrying a container and having a hinged bolt at the outer end and provided with a wing-nut, another swinging bracket above the same adapted to carry a tool and provided with a kerfed end into which said hinged



bolt may pass so that said wing-nut may be turned down binding said brackets in position.

1,418,750. PRESSER-FOOT LOCK. FELIX EMILE VALOIS, Haverhill, Mass., assignor to Hamel Shoe Machinery Company, Lynn, Mass., a Corporation of Massachusetts. Filed Aug. 1, 1918. Serial No. 247,747. 20 Claims. (Cl. 112—61.)

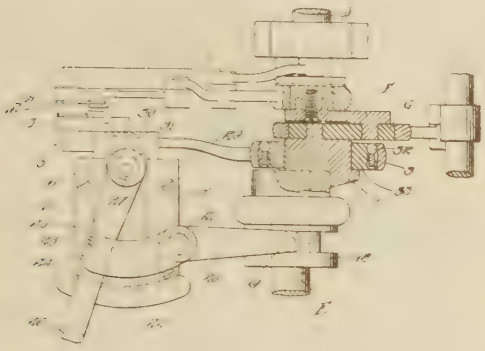


1. In a shoe sewing machine, a fixed table, a movable presser foot, means to hold the presser foot yieldingly toward the table and a rocker cam actuated in time with the machine to move the presser foot positively toward the table during the stitch forming operation.

1,418,751. AWL MOTION. FELIX EMILE VALOIS, Haverhill, Mass., assignor to Hamel Shoe Machinery Company, Lynn, Mass., a Corporation of Massachusetts. Filed Aug. 1, 1918. Serial No. 247,748. 15 Claims. (Cl. 112—35.)

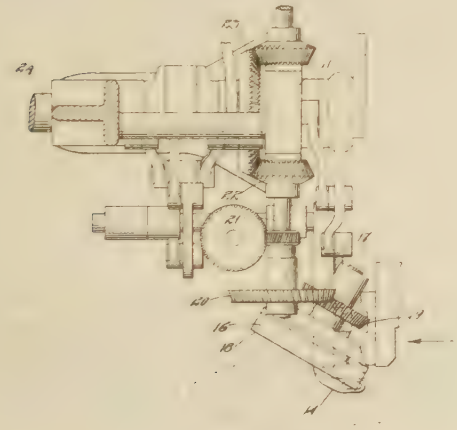
1. An improved awl feed for sewing machines of the

character described, comprising means for giving to the awl its forward and backward feeding movements, and a



variable speed-rotating crank to give to the awl its penetrating and retracting movements.

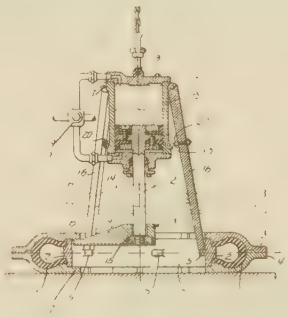
1,418,752. SHUTTLE MECHANISM. FELIX EMILE VALOIS, Haverhill, Mass., assignor to Hamel Shoe Machinery Company, Lynn, Mass., a Corporation of Massachusetts. Filed Aug. 1, 1918. Serial No. 247,751. 4 Claims. (Cl. 112—38.)



1. In an out-sole stitcher, in combination, a work-support having a work-engaging surface which is substantially parallel to the general plane of the shoe-sole at the stitching point, a curved hooked needle and needle-carrier journaled to oscillate about an axis disposed in a plane substantially coincident with the plane of the shoe-sole at the stitching point but beyond the edge of the shoe-sole remote from the operator, feeding mechanism, a front-thread-delivery shuttle having its front-face arranged at an acute angle to the line of feed, and means at the rear of the shuttle for driving the latter.

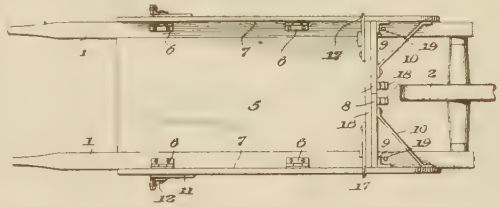
1,418,753. DEVICE FOR REMOVING TIRES FROM MOLDS. ROBERT N. VAN BUSKIRK, Detroit, Mich., assignor to Morgan & Wright, a Corporation of Michigan. Filed Jan. 11, 1922. Serial No. 528,379. 8 Claims. (Cl. 18—2.)

1. In a device for opening annular molds whose sections have projections on their peripheries, in combination, a fluid pressure device comprising a cylinder and piston operable therein, and sets of members connected re-



spectively to said cylinder and piston for engaging the projections on separate mold sections.

1,418,754. FOLDABLE WHEELBARROW. CHARLES VANGIESEN, Caro, Mich. Filed June 9, 1919. Serial No. 302,926. 1 Claim. (Cl. 280—52.)



A wheelbarrow body comprising a bottom wall, hinged side walls having ends projecting beyond the front end of said bottom wall, a fixed end wall on each side wall, an auxiliary end wall on the front end of said bottom wall and adapted to be retained thereon by said fixed end walls, angularly disposed braces connecting said fixed end walls to the projecting ends of said side walls so that said fixed end walls may be braced when said side walls are in a horizontal position and may cooperate with said fixed end walls in bracing said auxiliary end wall when said side walls are in a vertical position, and means carried by the ends of said auxiliary end wall adapted to engage over the upper edges of said side walls to retain said walls in vertical positions, and engage said fixed end walls when said side walls are in a horizontal position.

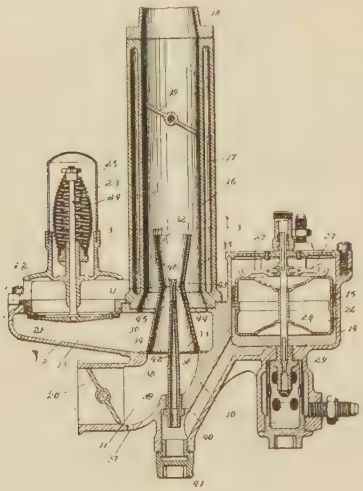
1,418,755. BUBBLE BLOWER. LITTA L. VOELCHERT, Manitowoc, Wis. Filed July 5, 1919. Serial No. 308,790. 1 Claim. (Cl. 46—31.)

A bubble blower comprising a stem, a hollow head piece located at one end of said stem, said head piece having a portion of its surface spherical and provided with a plurality of spaced apertures located wholly within the spherical portion of said head piece.

1,418,756. CARBURETOR. SIDNEY D. WALDON, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 15, 1913. Serial No. 789,849. 15 Claims. (Cl. 261—76.)

1. In a carburetor for hydrocarbon motors, the combination of an upright mixing chamber, a mixing tube

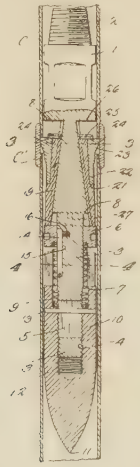
within the chamber and of smaller diameter than the chamber, an air inlet means for the mixing chamber, and an air inlet means for the mixing tube, there being an opening formed near the base of the mixing tube to permit condensed fuel to drain to the latter air inlet means, and an opening to permit said fuel to drain to the ground.



9. In a carburetor, the combination with a mixing tube having its inner surface formed with a contracted portion, of a fuel nozzle therein having its end arranged adjacent said contracted portion, said end having both its inner and outer surfaces flared upwardly and being unobstructed thereabove, for the purpose described.

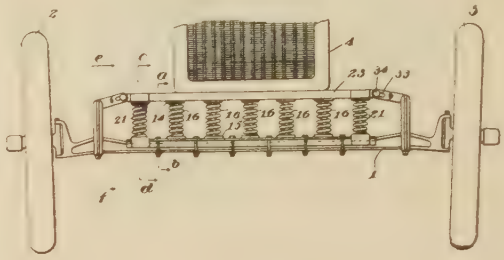
14. In a carburetor for hydrocarbon motors, the combination of an upright mixing chamber, a mixing tube within the chamber and of smaller diameter than the chamber, an air inlet means for the mixing chamber, an air inlet means for the lower end of the mixing tube, and means comprising a passageway adjacent the base of the mixing tube permitting the air to pass therethrough for sucking up and returning to the mixture the condensed fuel that may drain to the lower part of the upright mixing chamber.

1,418,757. TOOL FOR SLITTING CASINGS. JAMES G. WARNER, West Union, W. Va. Filed Sept. 20, 1921. Serial No. 502,041. 4 Claims. (Cl. 81—188.)



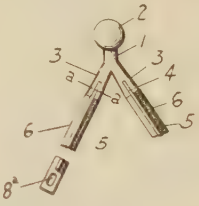
1. The combination with a body having upwardly converging faces, of jaws slidably mounted on said faces, cutting members carried by the jaws, yieldingly supported means for holding the jaws normally elevated with the cutting members retracted toward each other, and frangible means insertible between said means and the body for releasing the jaws to gravitate and shift the cutting members radially from each other.

1,418,758. SPRING SUSPENSION FOR VEHICLES. RAYMOND H. WATKINS, Somerville, Mass. Filed June 6, 1921. Serial No. 475,199. 5 Claims. (Cl. 267—60.)



1. A suspension appartus for vehicles comprising an elongated support, means for detachably securing said support to the vehicle axle to extend longitudinally thereof, a body supporting bar arranged substantially parallel to said support, coil springs interposed between said support and bar, rigid bracket members fixed relatively to the axle but spaced above the same, and connections between said bracket members and the respective ends of the bar whereby to prevent movement thereof in a direction transverse of the axle while permitting movement thereof in the vertical plane of the axle.

1,418,759. AUTOMOBILE RADIUS ROD. OLIVER E. WATSON, Dayton, Ohio. Filed May 2, 1921. Serial No. 466,094. 2 Claims. (Cl. 267—66.)



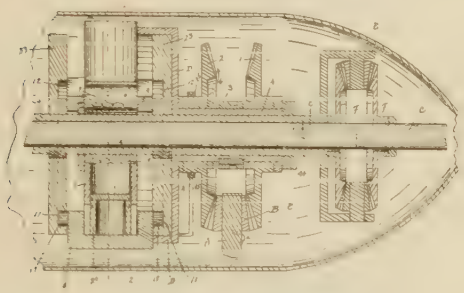
1. In a device of the type described, the combination with the axle of an automobile, of a pair of flanged radius members, fastening elements for securing the front ends of said members to said axle, and a bifurcated apex member, provided with recesses in its fork ends to receive the flange portions of the radius members.

1,418,760. VANITY CASE AND BOUQUET HOLDER. SYDNEY B. WERTHEIMER, Brooklyn, N. Y. Filed Mar. 13, 1922. Serial No. 543,165. 3 Claims. (Cl. 24—6.)

1. A vanity case and bouquet holder comprising a sheet of suitable material formed with a body portion and a

protruding stem portion or handle, in combination with a pocket flap flexibly connected with said body portion at one edge with means associated with said body portion and with said flap to clasp the same together when said flap is closed upon the body portion or to release the same at pleasure.

1,418,761. HYDRAULIC CLUTCH. JOSEPH S. WIGNALL, Jr., and ORLA E. MCCLELLAN, Payson, Utah. Filed July 14, 1919. Serial No. 310,658. 1 Claim. (Cl. 192—60.)



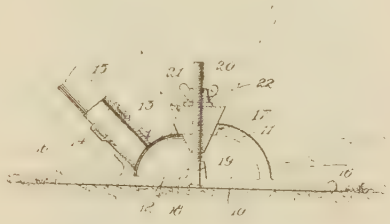
In a machine of the class described the combination with a driving shaft and pinion gear thereon, of bevel gears whose teeth are engaged by the teeth of said pinion; a casing having a flanged portion thereon on which said bevel gears are journalled; a clutch splined on said flange portion; radially disposed piston chambers within said casing having slots in their walls; pistons operable in said chambers; U-shaped connecting rods fastened to said pistons and whose medial portions are operable in the slots in said chambers and whose end portions are extended as bearings; ports in the end walls of said chambers; cylindrical valves having ports therein adapted to be brought into alinement with the ports in said chambers; a driven shaft; a sleeve bearing with which said driven shaft is connected and on which the flanged portion of said casing is journalled; spaced apart disks keyed on said sleeve bearing and having opposed bearing tracks therein within which the bearing portions of said U-shaped connecting rods operate to impart motion from said driving to said driven shaft.

1,418,762. LANDING GEAR FOR AEROPLANES. CHARLES F. WILLARD, New York, N. Y., assignor to L-W-F. Engineering Company, Inc., College Point, Long Island, N. Y., a Corporation of Michigan. Filed Jan. 9, 1919. Serial No. 270,267. 6 Claims. (Cl. 244—2.)

1. An aeroplane fuselage having a pivotally mounted skid extending from the interior to the exterior thereof and a yielding, supporting means for the skid comprising a stretchable binding member at the top of the skid and other similar members at the sides thereof, said binding members being located within the fuselage.

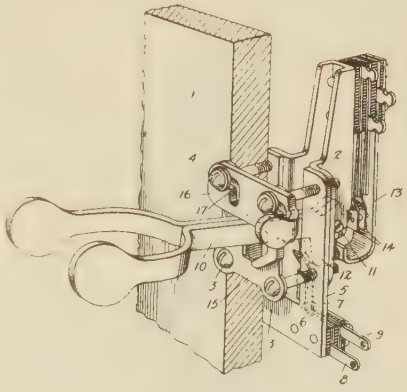
1,418,763. LAWN SPRINKLER. AMOS WILLIAMS, Sawtelle, Calif. Filed Oct. 8, 1920. Serial No. 415,491. 1 Claim. (Cl. 299—76.)

A sprinkler head including a substantially semi-spherical fluid casing having an inlet opening in its wall at one side of its vertical axis and a flat base adapted to rest evenly and securely upon a flat surface extending across and closing the lower portion of the casing and provided with arms radially outstanding beyond the casing to prevent



overturning, said casing having an upper outlet opening in its wall, concentric with its axis, a threaded stem projecting upwardly from the base plate and axially through said opening, a spray adjusting cone on said stem, and a nut on the stem above the cone.

1,418,764. ATTACHMENT FOR TELEPHONE HOOK SWITCHES. HENRY L. S. WILLIAMS, Montreal, Quebec, Canada, assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 19, 1920. Serial No. 425,072. 3 Claims. (Cl. 179—164.)

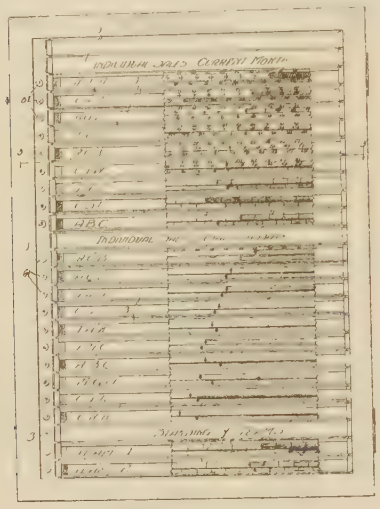


2. A latch device for a telephone receiver hook, comprising a plate member positioned across the path of such receiver hook to limit the upward motion thereof, said plate being provided with a plurality of slots, supporting means cooperating with said slots upon which means the plate is sidewise slidable to release the said receiver hook, and a tongue-like projection integral with said plate and cooperative with the said receiver hook to restore the said plate member to its normal position.

1,418,765. CHART. WILLIAM R. WILLIAMSON, Chicago, Ill. Filed May 13, 1921. Serial No. 469,157. 17 Claims. (Cl. 40—64.)

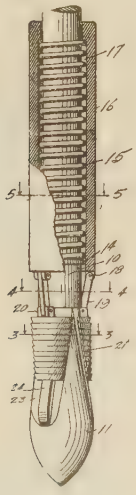
1. A bar comprising a pair of side plates, a series of blocks mounted rigidly between said plates in spaced rela-

tion, including a middle block and two end blocks, pulleys mounted in the spaces at the ends of the middle block, and



a belt on said pulleys, said middle block and belt having commensurate scales thereon.

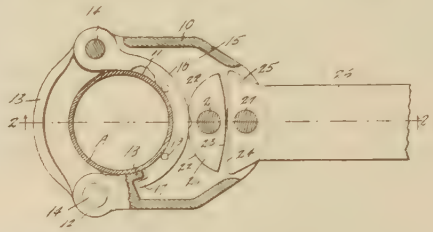
1,418,766. WELL-CASING SPEAR. ROBERT A. WILSON, Dallas, Tex., assignor to The Guiberson Corporation, Dallas, Tex., a Corporation of Delaware. Filed Aug. 2, 1920. Serial No. 400,584. 8 Claims. (Cl. 294—96.)



1. In a well casing spear, a mandrel, a head carried by the mandrel, radially displaceable slips mounted on the head, and a resiliently sustained weight mounted on the mandrel and having connection with the slips.

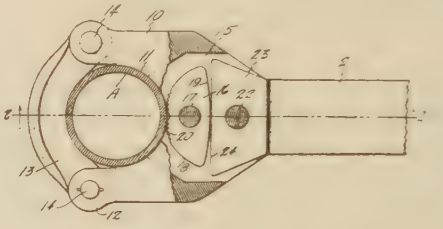
1,418,767. CASING WRENCH. ROBERT A. WILSON, Dallas, Tex., assignor to Guiberson Corporation, Dallas, Tex., a Corporation of Delaware. Filed June 6, 1921. Serial No. 475,471. 5 Claims. (Cl. 81—91.)

1. In a wrench, a jaw having a seat, means for holding an article in the seat of the jaw, a curved shoe pivoted in the jaw and adapted to engage an article through the seat



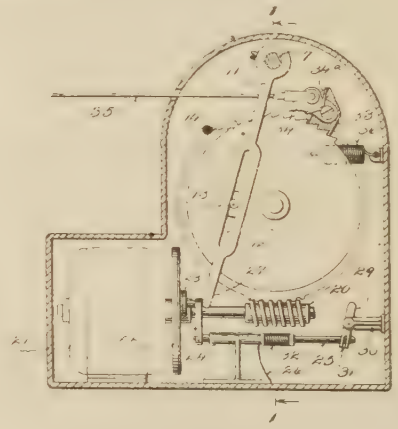
of the jaw, and a handle lever for swinging the shoe, through said seat.

1,418,768. WRENCH. ROBERT A. WILSON, Dallas, Tex., assignor to Guiberson Corporation, Dallas, Tex., a Corporation of Delaware. Filed June 6, 1921. Serial No. 475,472. 3 Claims. (Cl. 81—66.)



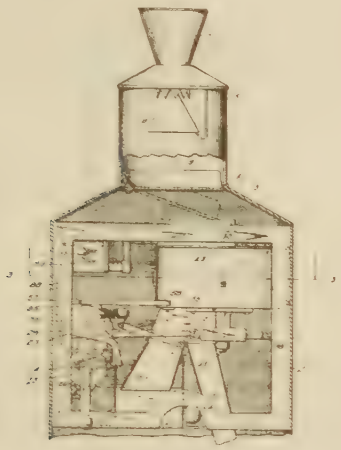
1. In a wrench, a jaw having a seat for receiving an article to be gripped, means for holding the jaw about the article, a cam dog pivoted in the jaw and having a gripping face for engaging the article, said face being disposed eccentrically from the pivot point of the dog, and a handle lever pivoted in the jaw and having a shoe provided with an actuating face engaging the dog at a point offset laterally from both the pivot point of the dog and the lever.

1,418,769. TILTING MECHANISM FOR AUTOMOBILE HEADLIGHTS. CHARLES PEARL WOODFORD, Spooner, Wis. Filed Mar. 25, 1921. Serial No. 455,633. 2 Claims. (Cl. 240—61.)



1. In a device of the character described, a rock shaft, headlights supported thereon, an arm secured on said shaft and having a slot therein, a rotary member, a pin carried thereon and engaging said slot, means for rotating said rotary member, and means for automatically applying a brake to the first mentioned means when said arm approaches the limit of its movement in either direction.

1,418,770. REGISTER. CHARLES H. WOODS and ALBERT RUEBSAMEN, Decatur, Ill., assignors to Decatur Supply and Fare Register Company, Decatur, Ill., a Corporation of Illinois. Filed Dec. 20, 1917. Serial No. 208,064. 34 Claims. (Cl. 235—32.)



25. A mechanism of the character described, including in combination, a casing, a driving shaft, a registering mechanism, a coin handling mechanism operated from said driving shaft, a supporting frame having an element slidably mounted therein and normally held in a retracted position by resilient means, a member adapted to be operated by a coin passing through said coin handling mechanism and normally in position to hold said element in an extended position and prevent its movement under the influence of said resilient means, said element being operatively connected to the registering means, said member having a plurality of recesses located in a part against which said element engages so that when said member is moved by the coin passing through the coin handling mechanism, one of said recesses will be in register with said element so as to permit its movement under the influence of said resilient means to operate the registering mechanism, a counter shaft driven from said driving shaft, a cam on said counter shaft, a member connected to said element and located in the path of movement of said cam, said cam serving as a means to return said element to its normal position after its movement to operate the registering means.

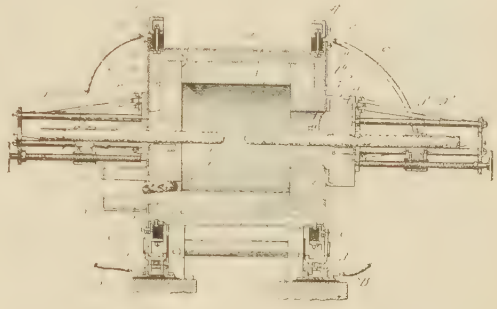
1,418,771. ART OF VULCANIZING CAOUTCHOUC. CLAYTON W. BEDFORD and ROBERT L. SIBLEY, Akron, Ohio, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Original application filed Aug. 12, 1918, Serial No. 249,579. Divided and this application filed Nov. 24, 1919. Serial No. 340,251. 13 Claims. (Cl. 260—24.)

5. An accelerator for use in the vulcanization of caoutchouc and comprising the base of the character produced by the reaction of one mol of paranitroso-dimethylaniline with one mol of hydrogen sulphide.

1,418,772. ART OF VULCANIZING CAOUTCHOUC. CLAYTON W. BEDFORD, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Original application filed May 17, 1919, Serial No. 297,920. Divided and this application filed Nov. 24, 1919. Serial No. 340,262. 7 Claims. (Cl. 260—24.)

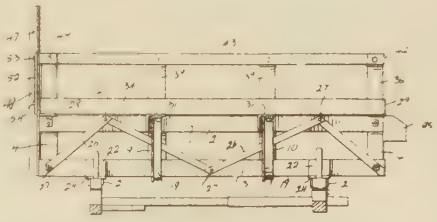
2. The process of producing a sulphur-nitrogen accelerator which consists in bringing together under reacting conditions sulphur and methylene diphenyldiamine.

1,418,773. FURNACE. WILLIAM K. BOOTH, Chicago, Ill., assignor to The Booth Electric Furnace Co., Chicago, Ill., a Corporation of Illinois. Filed Dec. 3, 1919. Serial No. 342,131. 8 Claims. (Cl. 204—64.)



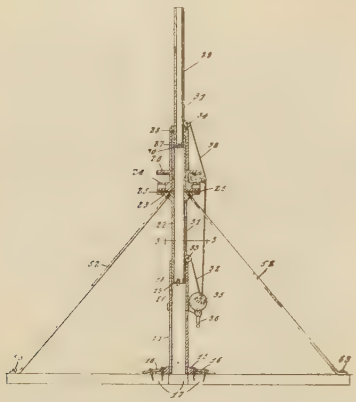
3. A furnace body, comprising an annular metal shell provided with a detachable end-plate and a lining of molded sections of refractory material insertable through the end of said shell and comprising an annular body having a substantially cylindrical molded integral section and a pair of end-sections flanking said annular body, said end-sections having hub-portions bearing against the end-plates of the metal shell, and a packing of heat insulation material interposed between said molded sections and said shell.

1,418,774. HAYRACK. KNUT BRATTEIG and GUSTAV BRATTEIG, Marshalltown, Iowa. Filed Dec. 17, 1919. Serial No. 345,596. 1 Claim. (Cl. 296—8.)



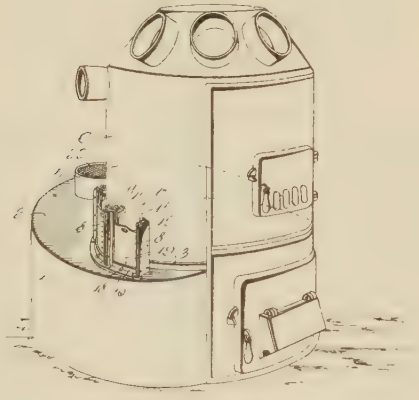
In a hay rack, the combination with an elongated skeleton base, comprising upper and lower longitudinally extending angle irons, said angle irons diverging rearwardly, thereby producing a structure gradually tapering and increasing in cross sectional area from the forward end to the rear end, vertical and horizontal angle irons connecting the upper and lower angle irons, thereby causing a structure to be formed which is rectangular in cross section, angularly arranged braces on the sides of the base connecting certain of said longitudinally extending angle irons, of a hay supporting frame mounted upon said base and extending laterally from and overhanging the sides of the base, said frame consisting of transversely disposed bars secured to the base, longitudinally extending angle irons connecting the lateral ends of said transversely disposed bars, upstanding angle irons rising upwardly from the ends of the forward and rear transverse bars, and longitudinal and transverse bars connecting said upstanding angle irons, braces connected to the lateral overhanging portion of the bottom of the hay supporting frame and converging downwardly and being connected to the base, for reinforcing the base relatively to the frame, transverse channel irons carried by the under face of the base and adapted to engage with the forward and rear bolsters of a wagon, said channel irons having upstanding ears to engage opposite sides of the base, said upstanding ears having means to engage the standards which rise from the ends of the bolsters.

1,418,775. ROUNDABOUT. CHARLIE ELMER BROWN, Findlay, Ohio. Filed June 18, 1921. Serial No. 478,580. 2 Claims. (Cl. 46—27.)



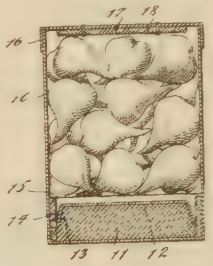
1. In a device of the character described, a movable support, a post, means for pivotally connecting the post to the movable support, said post including a plurality of telescoping sections, each of said sections having a groove extending longitudinally thereof, a flexible member having connection with each section at a point adjacent to the lower end thereof, said flexible members adapted to lie in the grooves when the sections are in their telescoped positions, means having connection with the flexible members for moving the flexible members to extend the telescoped sections, means for moving the post from its movable support, means for securing the post against movement when in its vertical position, and means for anchoring the movable support against movement.

1,418,776. AIR-INLET-CONTROL MEANS FOR FURNACES. WILLIAM G. CARRICO, Washington, D. C. Filed Nov. 23, 1921. Serial No. 517,346. 9 Claims. (Cl. 126—99.)



1. An air distributing attachment for hot air furnaces comprising a relatively long arcuate air supply casing adapted to extend around a cut-away lower end portion of a furnace casing and of considerably less height than the latter, said arcuate casing being closed at its outer curved side, top and bottom, and open at its inner curved side for communication with the furnace casing through its cut-away portion, whereby to distribute the incoming air within the furnace casing and cause it to substantially surround the fire-box, said arcuate casing being provided with means for securing its inner curved side against the furnace casing.

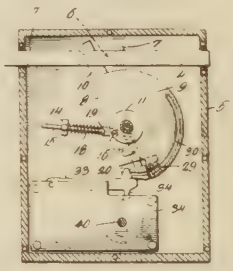
1,418,777. APPARATUS AND METHOD FOR PRESERVING PERISHABLE SUBSTANCES. HARRY BARRINGER COX, Los Angeles, Calif., assignor, by mesne assignments, to Cox Conservador Company, Los Angeles, Calif. Filed Oct. 21, 1920, Serial No. 418,464. Renewed Feb. 24, 1922. Serial No. 539,015. 9 Claims. (Cl. 99—2.)



6. In apparatus for preserving perishable substance from decay, a container for such substance having a moisture reservoir adapted to maintain a degree of moisture in the container approximately that of the contained substances, and a metallic earth plate adapted to be moistened from said reservoir and means to prevent contact between the substance and the earth plate.

7. The process of preserving perishable substances from decay which consists in subjecting the same within an enclosure to the evaporation from a source of moisture while holding the same out of contact with the fluid from which the moisture rises and maintaining about the substances a degree of moisture approximately that of the substances to be preserved.

1,418,778. PERMUTATION LOCK. STARK W. CRADDOCK, Richland, Mo. Filed May 6, 1921. Serial No. 467,321. 4 Claims. (Cl. 70—53.)

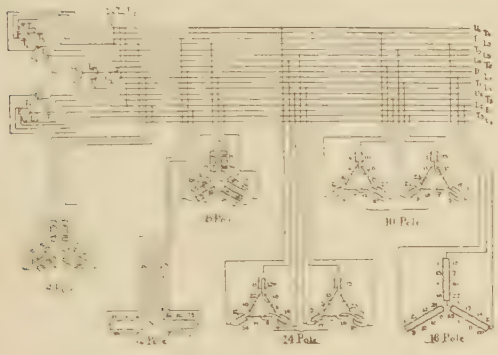


1. In combination, a bolt, a bolt operating mechanism therefor, said mechanism including a body provided with a semi-circular groove, means for rotating the body, a block slidably mounted in relation to the bolt operating mechanism and carried thereby provided with a groove normally adapted to register with the groove in the body of the latch mechanism, an element for preventing the rotation of the body normally positioned in the groove of the block and slidable in both of said grooves, means provided for moving the block so as to place its groove out of alignment with the groove in the body thereby preventing rotation of the body in the manner and for the purpose specified.

1,418,779. DYNAMO-ELECTRIC MACHINERY. FREDERICK CREEDY, Ilkley, England. Filed Feb. 11, 1919. Serial No. 276,263. 30 Claims. (Cl. 172—274.)

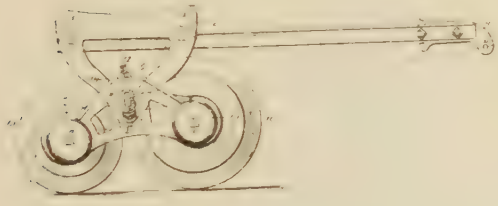
22. In combination, a dynamo electric machine, a primary winding on said machine divided into sections, per-

manent connections between opposite sections, and a controller joined to said permanent connections and to the



remaining ends of said sections for connecting said sections together and to the supply to produce different pole numbers but always the same number of zones of current.

1,418,780. AGRICULTURAL IMPLEMENT. WILLIAM D. DEWEND, South Bend, Ind., assignor to Oliver Chilled Plow Works, South Bend, Ind. Filed June 22, 1921. Serial No. 479,610. 14 Claims. (Cl. 55—77.)



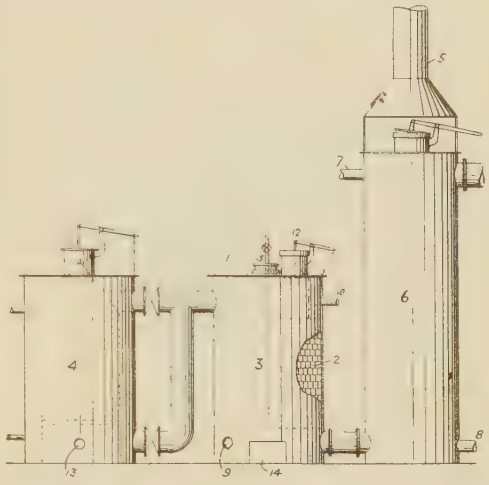
1. In an implement of the character described, the combination with a main frame, secondary frames, and pulverizing rollers mounted in the secondary frames, of means for effecting adjustable pivotal connections between the main frame and said secondary frames.

1,418,781. SEPARATION OF PETROLEUM-OIL SLUDGES. STERLING H. DIGGS, Whiting, Ind., assignor to Standard Oil Company, Chicago, Ill., a Corporation of Indiana. Filed Dec. 23, 1918. Serial No. 268,071. 6 Claims. (Cl. 196—28.)

1. The method of treating petroleum oil sludge for the separation thereof which consists in intimately mixing said sludge with water and mineral oil sludge sulphonic acid of the character derived from the fuming acid treatment of mineral oils, heating, and subsequently permitting the mixture to stratify.

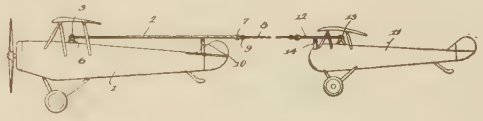
1,418,782. USING HEAVY OIL IN GAS MAKING. OWEN B. EVANS and HARUTYUN G. TERZIAN, Philadelphia, Pa., assignors to The United Gas Improvement Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 2, 1920. Serial No. 393,663. 4 Claims. (Cl. 48—205.)

4. The process of using heavy oil in the manufacture of gas which consists in gasifying heavy oil by introducing it to preheated checkerbrick thereby forming a carbon



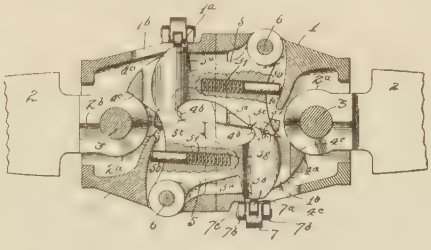
deposit on the checkerbrick, and consuming said deposit by blasting it with previously heated air.

1,418,783. TOWING CONNECTION FOR FLYING MACHINES. ANTHONY HERMAN GERARD FOKKER, Amsterdam, Netherlands. Filed June 16, 1921. Serial No. 478,084. 5 Claims. (Cl. 244—1.)



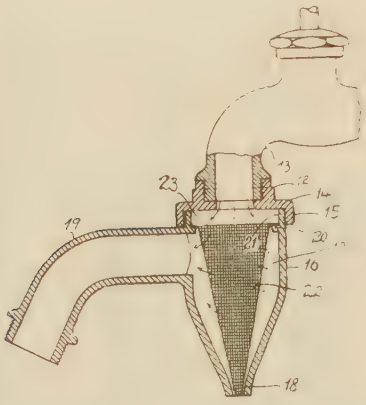
1. A towing connection for flying machines, comprising a relatively inflexible element attached to a flying machine body for universal angular movement, a towing rope connected to said element, and means to prevent said element from fouling.

1,418,784. CAR COUPLING. JOHN H. FUNK, St. Louis, Mo. Filed Mar. 9, 1921. Serial No. 450,867. 2 Claims. (Cl. 213—17.)



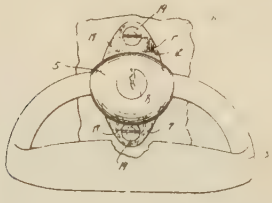
1. The combination of a pair of coupler heads having front abutting faces, a draw bar pivoted within each coupling head, said draw bar having a partly cylindrical front end, each coupler head having a rigid coupling hook adapted to engage with the knuckle of a standard coupler, said hook having a vertical front face oblique to the center line of the coupler heads, the outer side of said hook engaging the side wall of the cavity and the oblique end engaging the partly cylindrical end of the draw bar in a companion coupler when said coupling heads are interlocked, and means for interlocking the said coupler heads.

1,418,785. FILTER. WILLIAM E. GALLAGHER, Framingham, Mass. Filed May 14, 1920, Serial No. 381,413. Renewed Apr. 12, 1922. Serial No. 551,832. 2 Claims. (Cl. 210—84.)



2. In combination, a faucet having an enlargement at its discharge end of greater diameter than the bore of the faucet, and provided with a screw thread, a tubular casing having an enlarged end portion, screw-threaded to engage the thread on said enlargement, a tapering end portion forming a contracted sediment outlet, an internal strainer rest located below said enlargement, and a lateral nozzle below said strainer rest, the faucet enlargement, the enlarged end of the casing, and the strainer rest forming a stream-spreading space of greater diameter than the bore of the faucet, and a frusto-conical strainer seated at its larger end on said rest and extending therefrom into said sediment outlet, the larger end of the strainer being of greater diameter than the bore of the faucet, and adapted to receive from said stream-spreading space a stream of water, the pressure of which is reduced to prevent an objectionably forcible discharge through the sediment outlet.

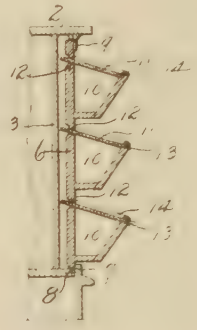
1,418,786. LOCK FOR VEHICLE DOORS. LOUIS W. GATES, New Haven, Conn., assignor to C. Cowles & Co., New Haven, Conn., a Corporation. Filed Sept. 28, 1921. Serial No. 503,905. 3 Claims. (Cl. 70—91.)



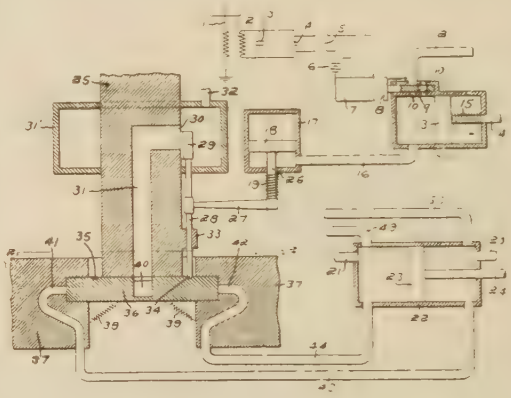
1. A lock for vehicle doors, comprising a handle, including a shank, a transversely-arranged key-operated locking-pin mounted in said shank, a hub around said shank in which the shank may turn and formed with a flange, an escutcheon-plate having screw-holes by which it may be secured to the outer face of a door, means for securing the flange of the hub over the escutcheon-plate, the said hub and escutcheon adapted to be interlocked by the said locking-pin.

1,418,787. STORE-SERVICE CABINET. HERMAN T. GRAMBOW, Atchison, Kans. Filed Jan. 6, 1922. Serial No. 527,435. 5 Claims. (Cl. 211—9.)

1. A display unit for store service cabinets including a carrier member having a plurality of display compartments, and covers for the compartments adapted to be locked against movement to prevent access to the compartments by a portion of the cabinet when the unit is placed in position therein.



1,418,788. SYSTEM FOR CONTROL OF BODIES BY RADIANT ENERGY. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed July 14, 1913. Serial No. 778,828. Renewed Oct. 9, 1915. Serial No. 55,114. 67 Claims. (Cl. 114—21.)

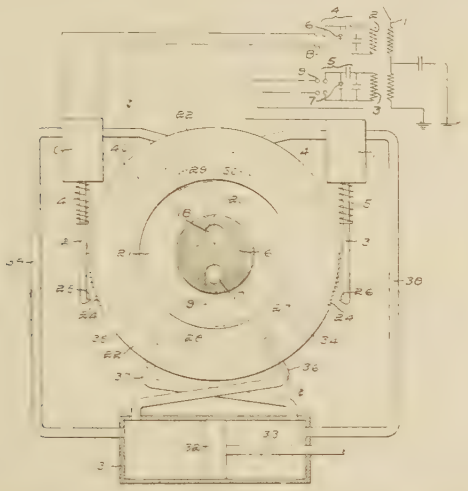


1. A system for controlling the operation of moving bodies at a distance by radiant energy, including in combination, a body to be propelled, means carried thereby to maintain a predetermined or definite direction of bodily movement thereof, means upon said body controlled by radiant energy from a distance station to steer said body in directions independent of the relative position of said body and said control station and also of said predetermined direction of bodily movement, and co-acting means controlled from said distant station to determine or fix by radiant energy therefrom the control of said body by said direction-maintaining means.

1,418,789. SYSTEM FOR CONTROL OF BODIES BY RADIANT ENERGY. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed July 14, 1913, Serial No. 778,829. Renewed May 2, 1922. Serial No. 558,041. 40 Claims. (Cl. 114—21.)

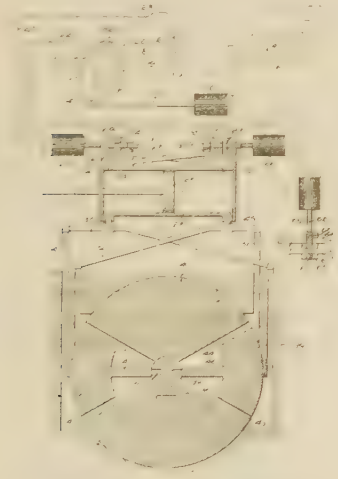
19. A system for controlling the operation of moving bodies at a distance by radiant energy including in combination, a body to be propelled, provided with means to

maintain a predetermined or definite direction of bodily movement thereof, means responding to certain wave



frequencies to turn said body to the right, and means responding to other wave frequencies to turn said body to the left.

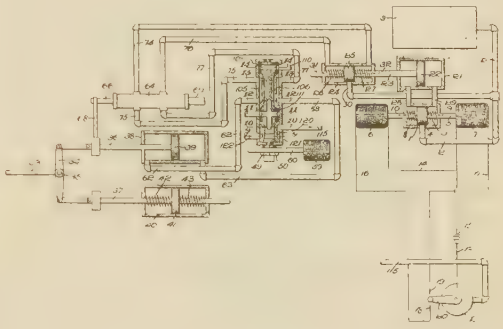
1,418,790. RADIODYNAMIC CONTROL OF GYROSCOPES. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Aug. 14, 1913, Serial No. 784,691. Renewed July 11, 1917. Serial No. 180,021. 23 Claims. (Cl. 114—21.)



1. A system for controlling the operation of moving bodies at a distance by radiant energy including in combination, a vessel to be propelled having a gyroscope to impart thereto a predetermined or definite direction of movement, a ported member having movement relative to the vessel and the gyroscope, means to lock said member to said vessel, means responsive to radiant energy from a distance to unlock said member and vessel, and co-acting means to compensate for creep of the gyroscope.

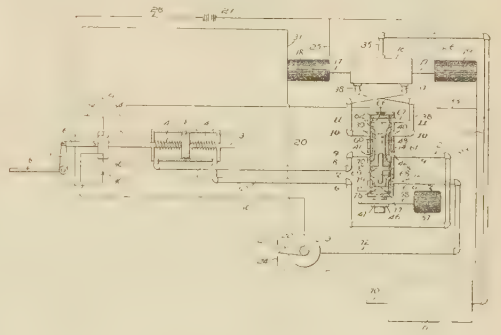
1,418,791. SYSTEM FOR CONTROL OF MOVING BODIES BY RADIANT ENERGY. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed June 22, 1914, Serial No. 846,468. Renewed May 3, 1922. Serial No. 558,310. 55 Claims. (Cl. 114—21.)

1. A system for the control of moving bodies at a distance by radiant energy including in combination, a body to be propelled, steering means thereon, means active upon said steering means to maintain a predetermined or definite direction of bodily movement of said body, and means to modify the action of said direction-maintaining means upon said steering means and means operative to overcome



the effect of said modifying means and to steer said body selectively through any part of an unlimited angle with respect to said direction.

1,418,792. SYSTEM FOR CONTROL OF MOVING BODIES BY RADIANT ENERGY. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Aug. 6, 1914. Serial No. 855,372. Renewed May 3, 1922. Serial No. 558,311. 63 Claims. (Cl. 114—21.)

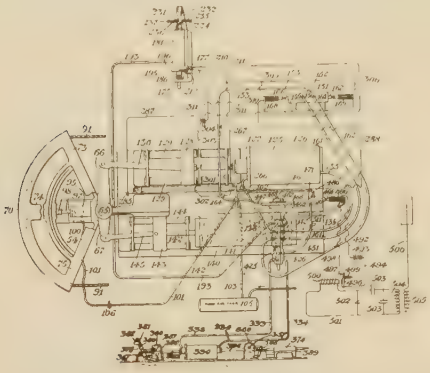


1. A system for the control of moving bodies at a distance by radiant energy including, in combination, a body to be propelled, steering means thereon, means active upon said steering means to maintain a predetermined or definite direction of bodily movement of said body, electrically-controlled means to modify the action of said direction-maintaining means upon said steering means, and means operative to overcome the effect of said modifying means and to steer said body selectively through any part of an unlimited angle with respect to said direction.

1,418,793. SYSTEM OF TELEDYNAMIC CONTROL FOR DIRIGIBLE BODIES. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Dec. 20, 1915, Serial No. 67,947. Renewed Mar. 12, 1919. Serial No. 282,189. 67 Claims. (Cl. 114—21.)

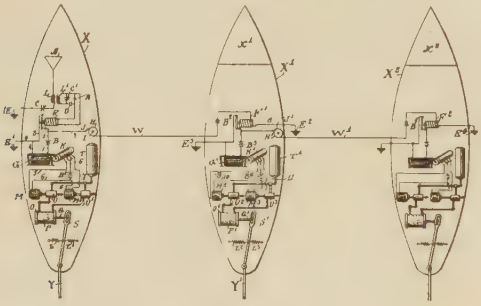
1. The combination with a movable body, of a plurality of operative devices carried thereby, and means for actuating said devices in response to impulses of energy re-

ceived from a distance, an impulse of energy of predetermined duration being effective to cause the actuation of



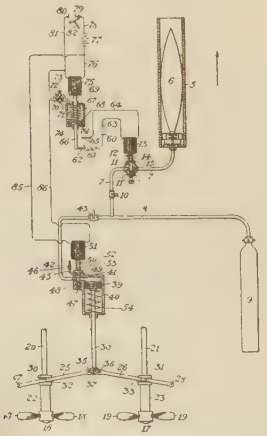
one of said devices, and an impulse of a different duration being effective to actuate said device and also another of said devices.

1,418,794. SYSTEM OF TELEDYNAMIC CONTROL. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Apr. 8, 1913, Serial No. 759,612. Renewed Sept. 22, 1916. Serial No. 121,689. 25 Claims. (Cl. 114—21.)



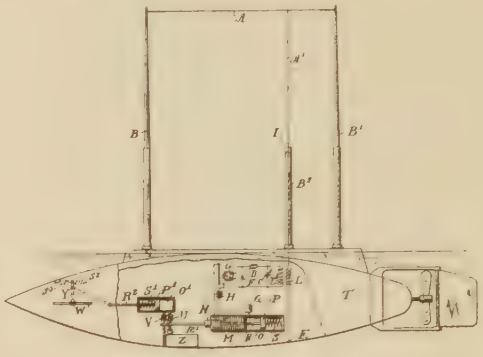
1. In a system of multiple control for vessels, a primary vessel controlled by radiant energy, a plurality of secondary vessels controlled through electric cables by said primary vessel, and automatic means for operating said secondary vessels from said primary vessel.

1,418,795. LAUNCHING MECHANISM FOR TORPEDOES. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Jan. 12, 1916, Serial No. 71,710. Renewed Mar. 14, 1918. Serial No. 222,515. 13 Claims. (Cl. 114—18.)



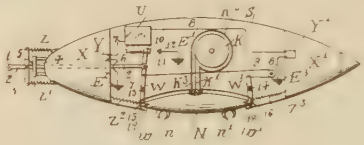
1. The combination with a movable body of propelling means therefor, means for launching a projectile from said body, and co-operating means for controlling said propelling means and the said launching means.

1,418,796. TELEDYNAMIC CONTROL. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed July 15, 1913, Serial No. 779,142. Renewed Dec. 13, 1918. Serial No. 266,649. 15 Claims. (Cl. 114—21.)



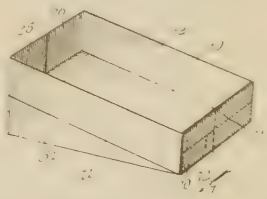
1. In a system of teledynamic control, a torpedo, receiving apparatus for radiant energy carried thereon, means controlled by said receiving apparatus for causing said torpedo to dive, and automatic means for rendering said diving means inoperative when the received energy is interrupted.

1,418,797. SYSTEM OF SUBMARINE-MINE LAYING. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Mar. 29, 1913, Serial No. 757,565. Renewed Jan. 30, 1919. Serial No. 274,127. 22 Claims. (Cl. 102—3.)



1. A system for laying submarine mines comprising a mine, a submarine towing vessel, a towing line between said mine and said towing vessel, means controlled by radiant energy whereby said towing line can be released, an anchor weight attached to the mine which will be released on the release of the towing line, and means for exploding the mine.

1,418,798. DISPLAY BOX. MARCUS A. HIRSCHL, Chicago, Ill. Filed Mar. 9, 1921. Serial No. 451,018. 3 Claims. (Cl. 206—44.)



1. The combination with a box having a bottom and sides perpendicular thereto, of a lid including a main stiff flat part of the same size and shape as the top of the box having triangular shaped side parts substantially perpendicular thereto, the lid hinged at the end adjacent the apexes of the triangular parts to one perpendicular side of the box in such a manner as to permit it to be folded under the box to form a support for the same.

1,418,799. SPRING MOUNTING. CHARLES C. HUDSON, Atlanta, Ga. Filed May 14, 1921. Serial No. 469,671. 1 Claim. (Cl. 267—52.)

In combination with a vehicle spring having a rocking and pivotal connection between a frame and an axle, of a

pair of plates engaging the inner surfaces of the upper and lower portions of said spring, a cylindrical spacing member

formed integrally with said plates and means coacting with the spring and plates for firmly anchoring the springs centrally to said axle.

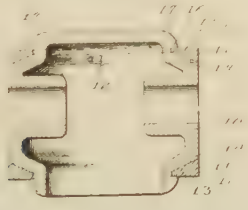
1,418,800. CLEANSING COMPOSITION. ELMA E. HULLINGER, Springfield, Ohio. Filed Mar. 28, 1921. Serial No. 456,190. 2 Claims. (Cl. 87—5.)

1. A cleansing composition composed of paraffine wax and paraffine oil, steel wool saturated or coated with said wax and oil and this mass coated with pumice stone.

1,418,801. FLORAL HANGER. JOSEPH C. JAMES, Antioch, Ill. Filed Oct. 10, 1921. Serial No. 506,729. 5 Claims. (Cl. 24—87.)

1. A hanger for the purpose set forth comprising a shank having means to suspend an article therefrom and provided at its upper end with a hook, said hook having a member which is turned downwardly and laterally towards the shank and formed at its extreme end which is closest to the shank with an anchoring point or spur.

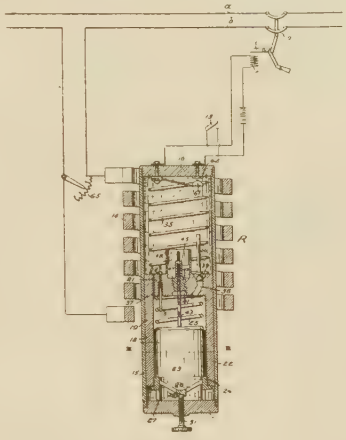
1,418,802. PISTON AND PISTON RING. HARRY B. JOHNSTON, Seattle, Wash. Filed Apr. 5, 1920. Serial No. 371,553. 7 Claims. (Cl. 74—109.)



7. A hollow one piece internal combustion engine piston having an open end, a piston ring groove adjacent each end, each groove having an inclined wall inclining outwardly and in the direction of the other groove, and an extension over part of the groove adjacent the respective piston ends and leaving the other part of the groove accessible to the pressure at the end of the piston.

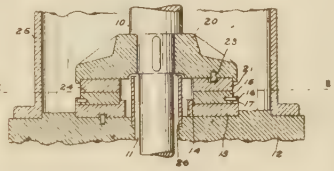
1,418,803. TIME-LIMIT APPARATUS. JOHN J. KANE Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed July 30, 1917. Serial No. 183,989. 30 Claims. (Cl. 200—97.)

25. A time limit device, comprising an energizing winding, a variably retarded member movable in response to magnetic effects due to said winding, and a movable element responsive to energizing effects produced by said



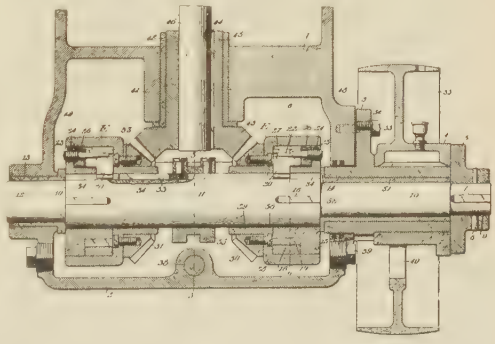
winding for causing the retardation of said member to vary inversely as the energization of said winding.

1,418,804. THRUST BEARING. JOHN J. KANE, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Feb. 2, 1920. Serial No. 356,182. 15 Claims. (Cl. 64—25.)



1. A thrust bearing, comprising relatively rotatable bearing elements having cooperative bearing surfaces, one of said bearing elements comprising an annular supporting element, and a plurality of disk-shaped bearing shoes carried by said supporting element and supported thereon at spaced points and restrained from free bodily movement thereon while having a limited angular movement about an axis through the center of and substantially perpendicular to the bearing face of the disk, said disk having a portion cut away at its bearing face at a point corresponding to the leading edge thereof during operation of the bearing.

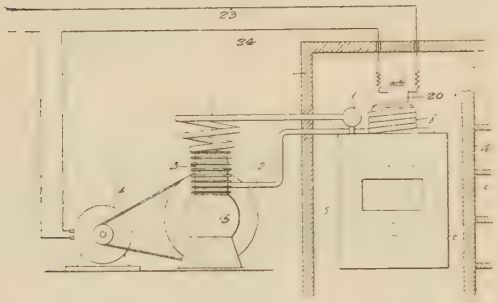
1,418,805. SLEEVELESS REVERSING CLUTCH. DAVID C. KLAUSMEYER, Cincinnati, Ohio, assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Filed June 14, 1921. Serial No. 477,511. 5 Claims. (Cl. 74—59.)



1. A frictional motion-reverser combining a casing; removable journals positioned in the end-walls of said

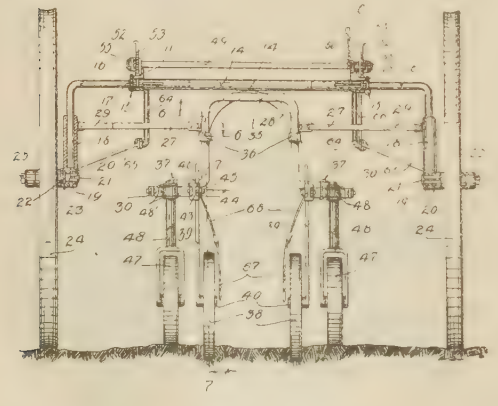
casing; a solid shaft non-translatably journaled in the journals in the end-walls of said casing and having one end protruding; means connected with said end to drive said shaft; a second shaft extending through a side-wall of said casing; a bevel-gear affixed to the inner end of said second shaft and located closely to said first shaft; two bevel-gears in mesh therewith journaled on said first shaft, the outer ends of said two gears each providing an annular recess, an expanding shoe arranged in each recess; two shoe supporting blocks slidably keyed to said shaft and arranged respectively at the outer ends of said two gears in abutment with said journals; lever-means for expanding said shoes; a shiftable collar mounted directly on said shaft supporting said two gears; an elongated key splined in said shaft and adapted to be translated by said collar to operate alternately said lever-means; and means for adjustably shifting one of said journals towards the other to take-up wear and maintain the coincidence of the pitch-lines of said gears, said means being operable externally of said casing.

1,418,806. REFRIGERATING APPARATUS. FREDERICK H. KOLBE, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Delaware. Filed July 29, 1920. Serial No. 399,656. 6 Claims. (Cl. 62—4.)



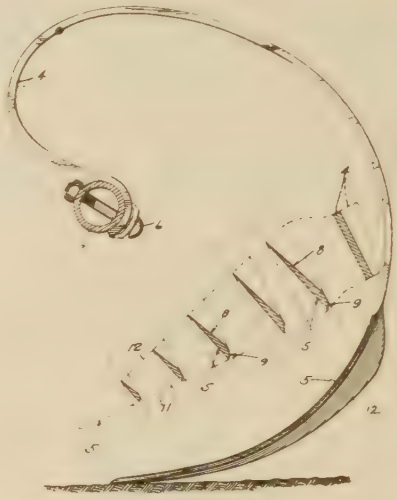
1. In a refrigerating device, a storage chamber and a refrigerating chamber having air circulation openings, an upright refrigerant coil in said chamber and cooled from below upwardly, the uppermost turns of said coil being located nearest to the air-inflow opening and in the direct air stream therefrom, a thermostatic device located inside the uppermost turns of said coil, and a cap preventing entrance of air into the end of said coil.

1,418,807. CULTIVATOR. JOSEPH J. KOVAR, Owatonna, Minn. Filed Oct. 31, 1919. Serial No. 334,680. 7 Claims. (Cl. 97—35.)



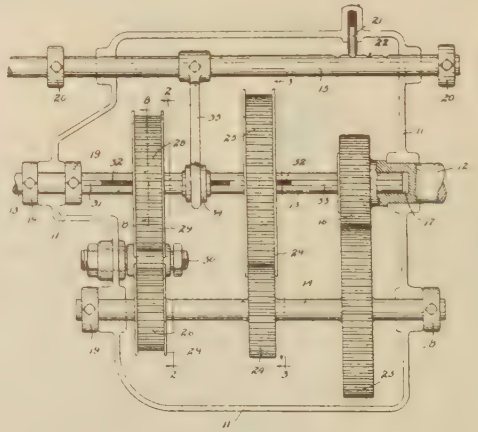
5. A cultivator including a main frame, crank-arm-equipped trunnions connected to the main frame by vertical pivots, wheels journaled on the trunnions, a tie-bar having an intermediate arch connecting said crank arms, two laterally spaced supplemental frames, ground-working tools carried by the supplemental frames, means flexibly connecting the supplemental frames in respect to the main frame, a tie-bar having an intermediate arch rigidly connecting the supplemental frames, bearings connected to the first noted tie-bar on each side of its arch and having the vertical members of the arch of the tie-bar connecting the supplemental frames slidably mounted therein, and means for raising and lowering the supplemental frames.

1,418,808. SPRING TOOTH FOR GROUNDWORKING IMPLEMENTS. JOSEPH J. KOVAR, Owatonna, Minn. Filed Nov. 29, 1919. Serial No. 341,428. 6 Claims. (Cl. 55—36.)



1. A spring tooth for ground-working implements comprising an arm having on one end a blade, said arm and blade being longitudinally bent, the longitudinal edges of the blade being beveled from the point of the tooth and the heel thereof having a greater width than that of the arm and extending outward of both of the longitudinal edges of said arm.

1,418,809. TRANSMISSION MECHANISM. CHARLES L. KUBISTA, New Ulm, and JOSEPH J. KOVAR, Owatonna, Minn.; said Kubista assignor to said Kovar. Filed May 12, 1920. Serial No. 380,912. 4 Claims. (Cl. 74—59.)



1. A transmission mechanism comprising a driving shaft and a driven shaft, a plurality of sets of intermeshing gears of different ratios for connecting said shafts, a member movable to connect one of said shafts

to the gears thereon, with a progressive action in which the one gear is connected before the other is released, said gears being constructed and arranged to drop behind the speed of the shaft on which they are mounted.

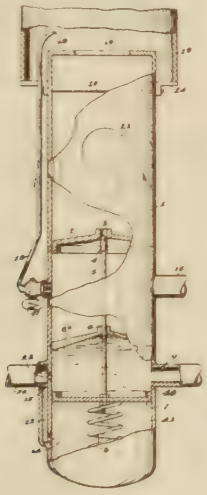
1,418,810. PLASTIC COMPOSITION. JAMES J. LEMON, Arnold, Pa. Filed Aug. 28, 1920. Serial No. 406,603. 1 Claim. (Cl. 106—24.)

A composition of matter adapted for use as a building block and mortar, comprising yellow or white blast furnace slag, finely ground, approximately seven parts; ordinary building sand, one part; a fair grade of cement, 1 part; lime, one-fifteenth part; and water in sufficient quantity to form a paste or plastic composition of the desired consistency.

1,418,811. PREPARATION OF LAMPBLACK. WARREN K. LEWIS, Newton, Mass., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 13, 1918. Serial No. 249,640. 9 Claims. (Cl. 134—60.)

9. The improvement in the art of producing carbon black by the imperfect combustion of natural gas, which consists in causing such combustion to take place in the presence of approximately 15 20 volumes of combustion gas.

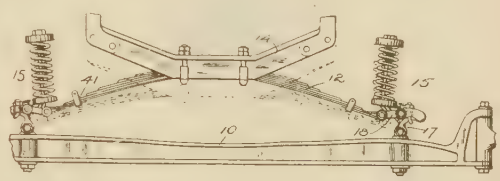
1,418,812. WATER HEATER. WILLIAM G. LEWIS, Los Angeles, Calif. Filed July 22, 1920. Serial No. 398,216. 3 Claims. (Cl. 236—25.)



1. In a water heater, a cylindrical housing provided with partitions that divide the space within said housing into a burner chamber, a gas chamber and a water chamber, the partition between the gas chamber and the burner chamber being provided with a gas outlet, a valve stem arranged for siding movement through the partition between the water chamber and the gas chamber, a valve carried by the upper end of said stem and adapted to normally close said gas outlet, a piston arranged for operation within the water chamber and connected to the lower end of the valve stem, a water inlet to the water chamber above the piston, and restricted water outlet openings leading from the water chamber above and below the piston therein.

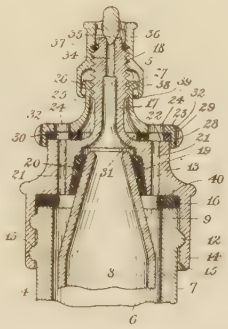
1,418,813. AUTOMOBILE SHOCK ABSORBER AND STABILIZER. THOMAS C. LUCE, Stratford, Conn. Filed Dec. 11, 1918. Serial No. 266,271. 12 Claims. (Cl. 267—29.)

3. In combination with an axle, a leaf spring, spaced brackets carried by said axle, shackles for swingingly connecting the ends of said spring to said brackets, said brackets having portions positioned to overlie and to be engaged by the ends of said spring to form abutments against which the ends of said spring strike, said shackles arranged to lie in a position extending beyond the ends of



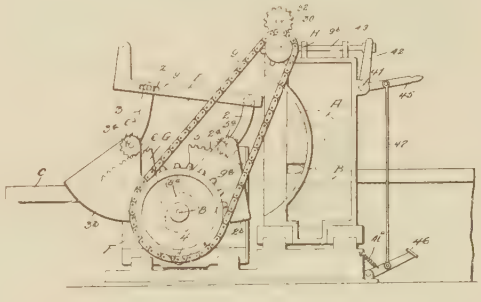
said spring and in axial alignment therewith at the instant said spring engages said portions, to thereby reduce the rebounding action of said spring, and resilient means for normally supporting the spring engaging end of said shackles in elevated position.

1,418,814. BOTTLE. DANIEL E. LUTZ and FREDERICK D. FOLSOM, Buffalo, N. Y. Filed Sept. 25, 1920. Serial No. 412,856. 13 Claims. (Cl. 25—6.)



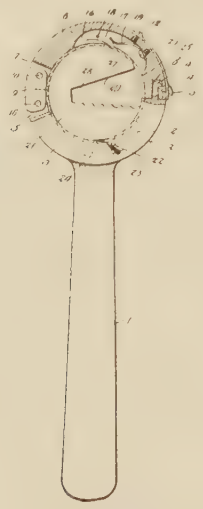
1. A container having a plurality of liquid substances maintained in separated condition and having attached means for permitting the discharge of the liquid substances separately or together while attached to said container.

1,418,815. PLATE-LIFTING MECHANISM FOR HOT MILLS. THOMAS MCCABE, Yorkville, Ohio. Original application filed June 17, 1919, Serial No. 304,825. Divided and this application filed Sept. 4, 1920. Serial No. 408,258. 4 Claims. (Cl. 10—147.)



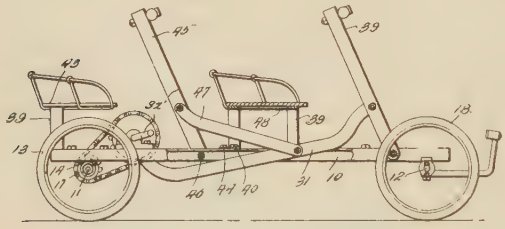
4. A plate lifting mechanism for rolling machines, comprising a table arranged to receive the plates that are discharged from the rolls of the machine, means separate and distinct from said table for moving the plates upwardly into a position to be engaged by the operator stationed at the front of the machine, and a manually-operable means adapted to be actuated by the operator in charge of the machine for tilting the table so as to discharge a plate therefrom at the completion of the rolling operation.

1,418,816. AUTOMATIC PIPE WRENCH. CHARLES C. MCCOY, Portland, Oreg. Filed Mar. 31, 1921. Serial No. 457,364. 3 Claims. (Cl. 81—63.)



1. A wrench comprising a handle having a head; a jaw pivoted at one end to the head; means for connecting the other end of the jaw releasably to the head; a rotatable member journaled in the head and in the jaw and having an open notch in its edge, the head and the jaw operating one at a time, directly, to form a closure for the notch when the jaw is in a closed position and when said member is rotated, the jaw being adapted to be swung to an open position, to give access to the notch in the rotatable member; and a pawl and ratchet means for imparting rotation to the rotatable member.

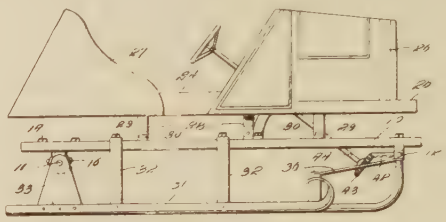
1,418,817. CHILD'S OCCUPANT-PROPELLED VEHICLE. RUDOLPH A. MACK, Gallipolis, Ohio. Original application filed June 26, 1919, Serial No. 306,941. Divided and this application filed Oct. 27, 1920. Serial No. 419,886. 5 Claims. (Cl. 208—34.)



1. In a device of the class described, a frame, drive and steering axles on said frame, a transmission shaft on said frame, a crank on said shaft, a gear on said shaft operatively connected with said drive axle, a pair of levers pivoted in spaced relation on the longitudinal center of said frame, a link connecting one of said levers with said crank, and a second link connecting the other of said levers with the first mentioned link.

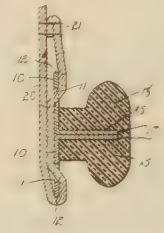
1,418,818. COASTER SLED. RUDOLPH A. MACK, Gallipolis, Ohio. Original application filed June 26, 1919, Serial No. 306,941. Divided and this application filed Oct. 27, 1920. Serial No. 419,888. 4 Claims. (Cl. 280—15.)

4. In a device of the character described, a pair of runners made of angle metal and presenting an upwardly extending flange, brackets secured to and projecting upwardly from said flanges near one end of the runners, the said brackets being alined with each other laterally of



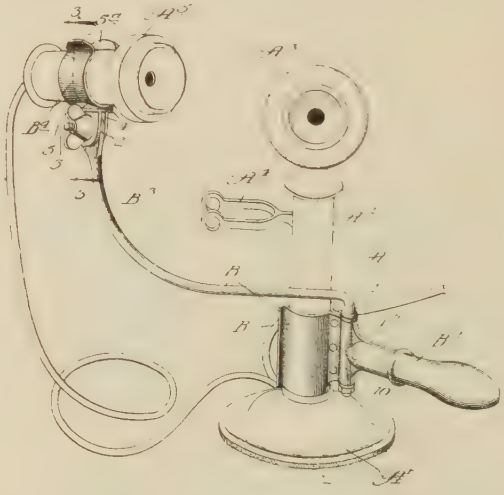
the runners, and U-shaped brackets arranged in inverted position spanning said runners and secured at their ends to the flanges of said runners.

1,418,819. GARMENT-FASTENER BUTTON. JULIUS MALTBY, Waterbury, Conn., assignor to Waterbury Buckle Co., Waterbury, Conn., a Corporation. Filed Dec. 7, 1921. Serial No. 520,473. 2 Claims. (Cl. 24—245.)



1. A garment-fastener button having a button-base provided with two self-embedding, upstanding prongs, and an initially-solid, rubber button-head into which the said prongs are embedded for the anchorage of the button-head thereto.

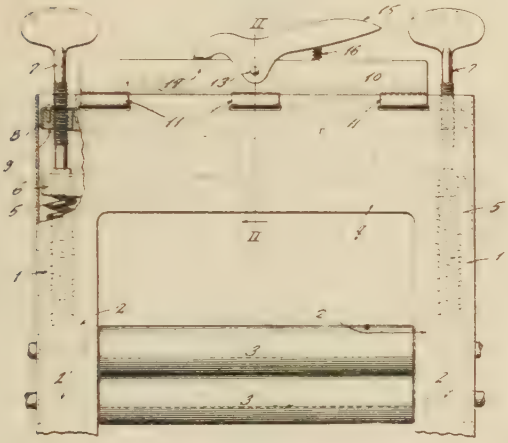
1,418,820. TELEPHONE-RECEIVER SUPPORT. NELLIE FORSMAN MANSURE, Chicago, Ill. Filed Apr. 1, 1920. Serial No. 370,583. 1 Claim. (Cl. 248—20.)



The combination with the vertical standard of a telephone, of a clamping device engaging said standard and equipped with a counterweight in the form of a handle, an arm having a vertical swivel portion journaled at the junc-

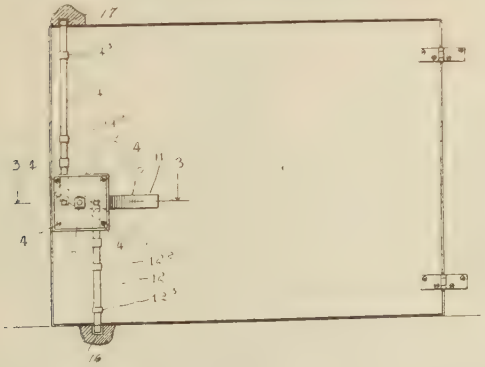
tion of said clamp and handle and having a curved portion extending across the telephone stand and provided with an upstanding extremity affording a pivot-eye, a connecting-member connected by a horizontal pivot with said pivot-eye, and a receiver-holding clip mounted on and having vertical swivel connection with said connecting-member.

1,418,821. CLOTHES WRINGER. WILLIAM H. MEYER, St. Louis, Mo., assignor, by mesne assignments, to The Davis Sewing Machine Company, a Corporation of Delaware. Filed Feb. 7, 1920, Serial No. 357,053. Renewed Dec. 14, 1921. Serial No. 522,442. 3 Claims. (Cl. 68—32.)



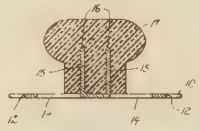
1. In a wringer, a frame, a pair of wringer rolls, yielding means for forcing one of said rolls toward the other, a movable thrust-receiving member subjected to the pressure of said yielding means, and a breakable bridge spanning said frame and cooperating with said movable thrust-receiving member to retain said yielding means under pressure, said breakable bridge comprising wings, pivots connecting the outer margins of said wings to said frame, the axes of said pivots being approximately parallel with the axes of said rolls, and a clip detachably connecting the inner margins of said wings, said clip being pivoted to one of said wings and movable to disconnect the inner margins of said wings.

1,418,822. DEVICE FOR SECURING AND SUPPORTING DOORS. HENRY MILLER, New York, N. Y. Filed Dec. 28, 1920. Serial No. 433,578. 3 Claims. (Cl. 292—40.)



1. In a device of the character described the combination of a lever adapted to be pivoted upon a door, a toothed rack adapted to engage the lever and a shaft secured to the lever intermediate the rack and the point at which the lever is pivoted substantially as shown and described.

1,418,823. GARMENT-FASTENER BUTTON. THEODORE H. MILLER, Waterbury, Conn., assignor to Waterbury Buckle Co., Waterbury, Conn., a Corporation. Filed Dec. 7, 1921. Serial No. 520,523. 1 Claim. (Cl. 24—245.)



In a garment-fastener button, the combination with a one-piece, metal base having threading openings and two upstanding parallel prongs having serrated sides and pointed ends, of an initially solid-rubber button-head into which the prongs are thrust and in which they are embedded for attaching the head and base together.

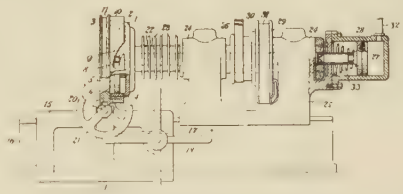
1,418,824. ACCELERATOR. RALPH B. NAYLOR, Springfield, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Aug. 26, 1920. Serial No. 406,196. 9 Claims. (Cl. 18—53.)

1. An accelerator for use in rubber vulcanization comprising a condensation product of para-toluidine and formaldehyde.

1,418,825. VULCANIZING RUBBER. RALPH B. NAYLOR, Springfield, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Oct. 21, 1920. Serial No. 418,560. 5 Claims. (Cl. 18—53.)

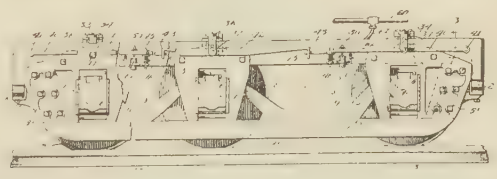
1. Vulcanized rubber containing the reaction product of uncured rubber, sulphur, and phenylhydrazine.

1,418,826. ROTARY CASTING-MACHINE MOLD. WILLIAM A. OUBRIDGE, Coventry, England. Filed July 5, 1921. Serial No. 482,498. 3 Claims. (Cl. 22—65.)



1. In a centrifugal metal-casting machine the combination of a mold having separable mold-parts attached together for the casting operation by means of a device adapted to draw the said mold-parts one toward the other or to force them apart when they are relatively moved about their common axis and a mechanically operated gripping means for holding one of said mold-parts stationary whilst the other mold-part is being moved relatively thereto, substantially as described.

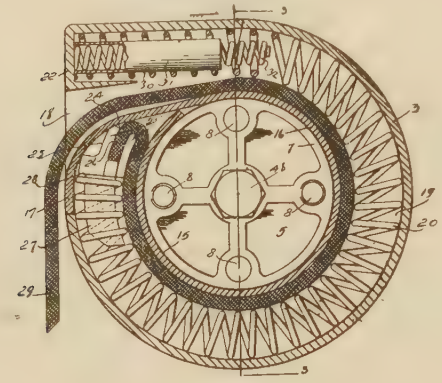
1,418,827. SAFETY ATTACHMENT FOR RAILWAY-CAR TRUCKS. CARL L. PITTMAN, De Leon, Tex. Filed Sept. 6, 1921. Serial No. 498,792. 6 Claims. (Cl. 246—171.)



1. The combination of a pedestal type railway car truck, safety shoes on each side of the truck having bifurcated

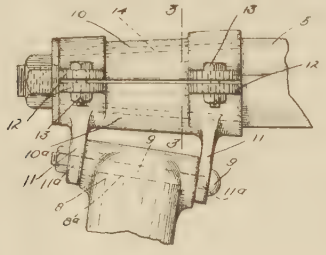
ends to straddle the wheels, and means for securing each bifurcated shoe end to the truck frame and to the adjacent pedestal.

1,418,828. SNUBBER. FRED H. REAM, Dayton, Ohio. Filed Aug. 15, 1921. Serial No. 492,461. 5 Claims. (Cl. 267—9.)



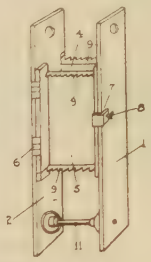
1. A snubber device for automobiles, consisting of a circular housing member, a concaved bed in the periphery of said housing member, a spiral spring lodged in said bed, a base member demountably mounted in the rearward side of said housing member and provided outwardly with an outwardly projection and inwardly with an inwardly projecting cylindrical plug entering into said housing member, a cap member demountably mounted on the front side of said housing member and provided inwardly with an inwardly projecting plug entering into the housing member, a drum member having a concentrically formed portion mounted idly on the plug projections on said base and said cap members and a tangentially extending extension portion supportingly engaged by said housing member, a strip of flexible material connected with the lower end of said spiral spring and slidably bearing on said drum member and extending outwardly of said housing member, and means associated with the outer end of said strip adapted for clamping the strip on an axle.

1,418,829. RUNNER-ATTACHING DEVICE FOR THE AXLES OF WAGONS. GOTTLIEB RIEDLER, Hector, Minn. Filed Sept. 11, 1920. Serial No. 409,614. 1 Claim. (Cl. 280—14.)



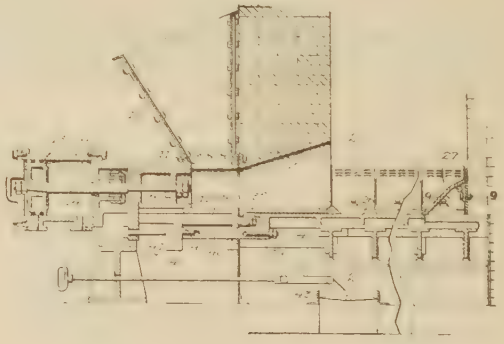
A runner device adapted to be attached to the journal of a wagon axle having in combination a split tapered sleeve adapted to be rigidly clamped to said journal, spaced lugs depending therefrom and provided with alined apertures, a pivot bolt disposed in said lugs, the axes of said apertures and bolt inclining downwardly and inwardly of the axle, and a runner having a knee bracket secured thereto, said bracket having an apertured bearing at its upper portion pivoted on said bolt between the said lugs, and forming the sole connection between the said axle and runner.

1,418,830. FILM-CLEANING DEVICE. ROBERT A. RIESTERER, Vancouver, British Columbia. Filed July 23, 1920. Serial No. 398,438. 1 Claim. (Cl. 15—100.)



A film cleaning device for moving picture machines comprising a pair of side plates adapted to be mounted in a vertical position between the upper and lower magazines of the machine, a vertical transverse plate rigidly connecting the said side plates together, said plate being serrated along its upper and lower edges and being provided on its inner surface with layers of cleaning material held in place by engagement with the serrations, a second transverse vertical plate arranged opposite the first one also serrated along its upper and lower edges and provided with layers of cleaning material held in place by the serrations, said second plate being hingedly connected at one side to one of the said side plates whereby it is capable of being swung outwardly to permit removal and replacement of its cleaning layers during operation of the machine, and means for detachably connecting the opposite side of the said second plate to the other side plate.

1,418,831. UNDERFEED STOKER. ROBERT SANFORD RILEY, Worcester, Mass., assignor to Sanford Riley Stoker Co., Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 4, 1919. Serial No. 315,167. 6 Claims. (Cl. 110—47.)

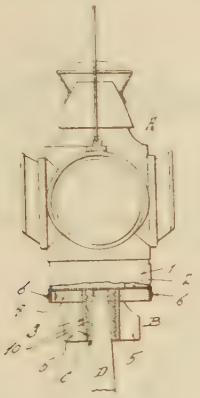


6. An underfeed stoker having, in combination, a retort having a longitudinally movable bottom plate and laterally movable side walls, a coal feeding plunger for said retort, means to reciprocate said plunger, and lost-motion connections from said plunger to said bottom plate and to said side walls, whereby reduced motion may be communicated to said plate and to said walls from said plunger during a portion only of the movement of the plunger.

1,418,832. LAMP. GEORGE H. ROLFES, St. Louis, Mo., assignor to Handlan-Buck Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 28, 1921. Serial No. 465,078. 9 Claims. (Cl. 240—52.)

1. A lamp having a base including a tubular mold member provided with anchoring means on its inner face,

and a metallic tubular adapter cast in said mold member, said tubular adapter being shrunk onto said anchoring

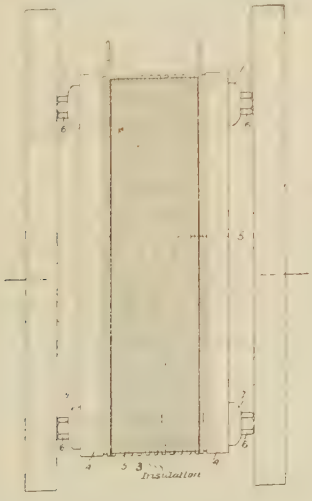


means so as to securely interlock the adapter casting with said mold member.

1,418,833. TROLLEY WHEEL. FRANK N. RUSSELL, Elmira, N. Y. Filed Nov. 2, 1921. Serial No. 512,232. 4 Claims. (Cl. 191—63.)

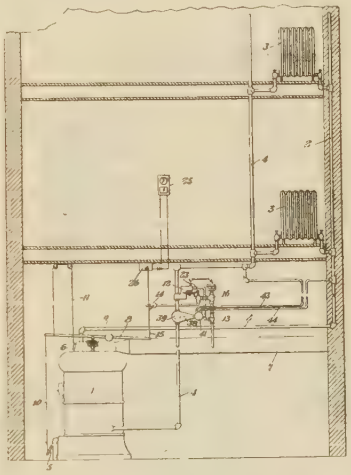
1. A trolley wheel comprising two disk or body members, each having a circular groove in its inner face, and a separable tire or tread member disposed between said disks or body members and entering the circular grooves in the same.

1,418,834. MANUFACTURE OF GRID RESISTANCES. LEONARD SATCHWELL, Burry Port, Caermarthen, Wales. Filed Oct. 18, 1920. Serial No. 417,747. 10 Claims. (Cl. 219—63.)



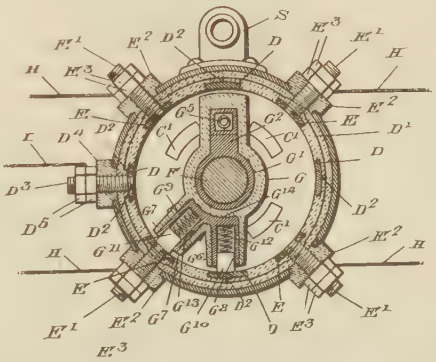
1. An electrical resistance comprising a stamped strip of metal having notches at intervals along its edge, said strip being bent parallel to itself at said notches, separators located between adjacent lengths of strip and covering but a small fraction of their surface, and means clamping said strip and separators together.

1,418,835. HEATING SYSTEM. WILLIAM H. SCHOONMAKER, Montclair, N. J. Filed Mar. 3, 1917. Serial No. 152,198. 23 Claims. (Cl. 237—9.)



18. In a heating system, the combination of a distributing conduit, means for supplying steam thereto comprising a boiler, said boiler having a controlling damper, a suction producing means, an air-withdrawal conduit including a valve casing connected to said distributing conduit, a valve arranged within the valve casing and having associated therewith a thermostatic operating means controlled by the temperature of the fluid in said valve casing, control means for said suction producing means operated by said thermostatic operating means, means for starting said suction producing means in operation when said damper is adjusted to cause increased action in the boiler and for stopping the operation of said suction producing means when said damper is adjusted to cause decreased action in the boiler and an independent means for controlling the actions of said suction producing means in accordance with pressure variations between predetermined limits in the distributing conduit.

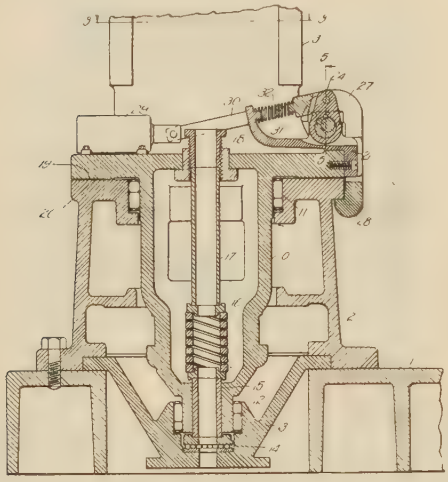
1,418,836. DISTRIBUTOR FOR IGNITION SYSTEMS. PHILIP NELSON SCOTT, Westwood, N. J., assignor to William C. Hall, Haworth, N. J., and James De Turck, Hackensack, N. J. Filed Aug. 29, 1919. Serial No. 320,671. 13 Claims. (Cl. 200—24.)



1. The combination in a spark distributor, of three sets of contact points, the points of the first set being positioned to describe a single orbit, and the points of the second and third sets being positioned to describe a

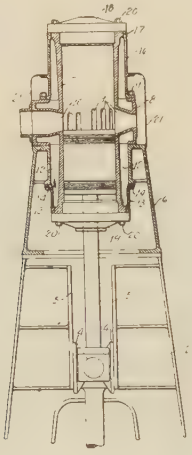
single orbit; means adapted to establish contact between the points of said first set and said means; and means adapted to establish contact between the points of said second and third sets.

1,418,837. SUPPORTING AND CLAMPING MECHANISM FOR DRILLING MACHINES. WILLARD T. SEARS, Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 17, 1919. Serial No. 283,171. 14 Claims. (Cl. 77—27.)



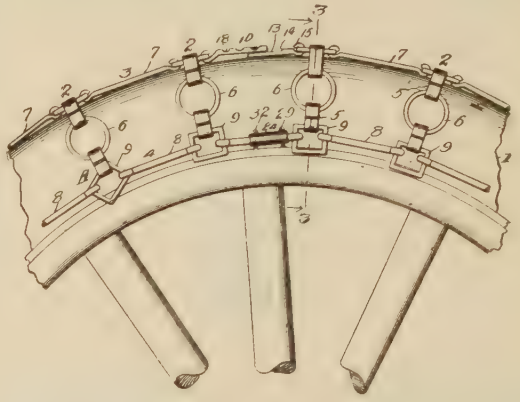
1. In a drilling machine, the combination of a base, a column rotatably supported on the base, an arm projecting horizontally from the column, drilling mechanism carried by the arm, a vertically acting clamping device carried by the column at the same side thereof as the arm and adapted to effect a direct clamping engagement between the column and the base whereby the clamping is intensified in the vertical plane of the arm to directly resist the upward reaction of the arm during the drilling operation, and power means for operating the clamping device.

1,418,838. DOUBLE-ACTING, TWO-CYCLE INTERNAL-COMBUSTION ENGINE. HANS R. SETZ. Manitowoc Wis. Filed Sept. 24, 1920. Serial No. 412,464. 12 Claims. (Cl. 123—61.)



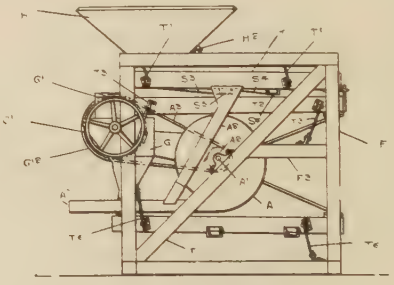
1. A double-acting internal combustion engine provided with a jacketed cylinder having an inner wall whose central portion is rigidly connected to a supporting structure and whose end portions are free to expand and contract longitudinally with relation to the jacket.

1,418,839. NONSKID MUD AND SNOW DEVICE. ROBERT E. SHARP, Esbon, Kans. Filed Feb. 15, 1921. Serial No. 445,138. 1 Claim. (Cl. 24—206.)



In a device of the character described, the combination of chains, a fastening device connecting said chains, said fastening device consisting of a primary link and an auxiliary link, each link including an elongated thickened solid body, said auxiliary link being slidably mounted upon said primary link, said primary link having an aperture in its body, said auxiliary link having transversely extending grooves formed in the outer face of its body, said auxiliary link having apertures formed in its body and communicating with said grooves, a bolt fitting within the aperture of said primary link and within a selected aperture of said auxiliary link and extending into the groove communicating with the selected aperture of the auxiliary link, and retaining means engaging said bolt and fitting entirely within the groove, as and for the purposes set forth.

1,418,840. APPARATUS FOR SHELLING NUTS. HORACE L. SMITH and HORACE L SMITH, Jr., Prince George County, Va. Filed July 21, 1921. Serial No. 486,475. 4 Claims. (Cl. 146—3.)

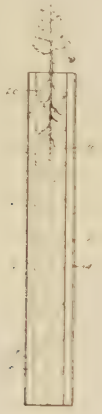


1. In an apparatus for shelling nuts, the combination of means adapted to separate the nuts into classes in accordance with their sizes; two shelling concaves, each adapted to receive the nuts of a single class; a shelling member adapted to co-act with both of said concaves; and a circular plate projecting beyond the periphery of said member and between said concaves, adapted to separate the nuts on one concave from the nuts on the other concave.

1,418,841. DEVICE FOR CONTROLLING THE GROWTH OF PLANT ROOTS. GEORGE B. SOUTHARD, Los Angeles, Calif. Filed Dec. 18, 1920. Serial No. 431,593. 5 Claims. (Cl. 47—36.)

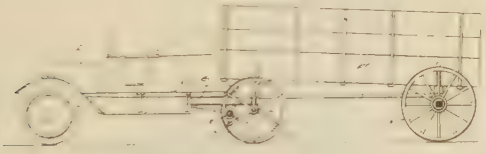
1. A device of the class described, comprising a core member adapted to be placed in the ground adjacent a

plant, and means for causing the roots of said plant to cling to said core member, during their growth.



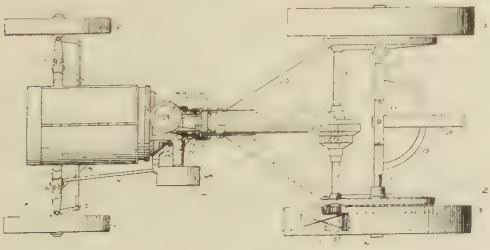
5. A device of the class described, comprising a core member formed of disintegrable material provided on one of its surfaces with a centrally disposed rib and a plurality of ribs extending from the outer edges thereof inwardly and downwardly, but not connecting with said centrally disposed rib, and a disintegrable and flexible casing arranged adjacent the ribbed surface of said core member.

1,418,842. TRACTOR ATTACHMENT FOR AUTOMOBILES. EDWIN G. STAUDE, Minneapolis, Minn. Filed Dec. 13, 1916. Serial No. 136,643. 4 Claims. (Cl. 180—14.)



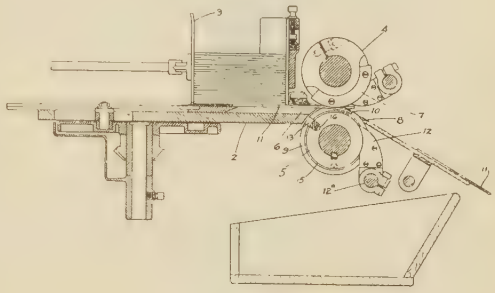
1. The combination, with an automobile frame and its rear axle, of rails secured to said frame and projecting rearwardly beyond the rear axle, traction wheels and an axle therefor whereto said rails are secured, said traction wheels having internal gears, pinions mounted on said automobile axle for meshing with said gears to drive said wheels, a bolster mounted on said traction wheel axle for horizontal oscillation, a trailer frame having its tongue pivotally connected with said bolster, and a trailer body supported at its forward end on said bolster and having freedom of oscillation therewith.

1,418,843. LINE DRIVE FOR TRACTORS. EDWIN G. STAUDE, Minneapolis, Minn. Original application filed July 10, 1917, Serial No. 179,651. Divided and this application filed Oct. 11, 1920. Serial No. 415,967. 13 Claims. (Cl. 180—77.)



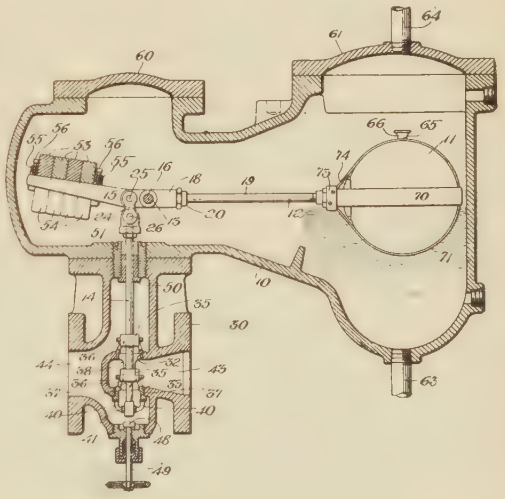
1. A tractor comprising suitable ground wheels, a motor therefor, a steering wheel, a pair of cables connected to said steering wheel for operating the same, a lever for rendering said motor active or inactive, and a locking means for said lever controlled by said cables.

1,418,844. ATTACHMENT FOR PAPER-SLOTTING MACHINES. EDWIN G. STAUDE, Minneapolis, Minn. Filed Dec. 27, 1920. Serial No. 433,530. 5 Claims. (Cl. 164—16.)



1. The combination, with a blank slotting roll having a peripheral groove therein and a cleaning finger operating in said groove, of a plug mounted in said roll and having a slot therein of sufficient width to allow the passage of said cleaning finger and of less width than the groove in said roll.

1,418,845. WATER-LEVEL CONTROLLER. GEORGE W. STETSON, Hingham, Mass. Filed Sept. 6, 1917. Serial No. 190,094. 3 Claims. (Cl. 137—101.)



1. A water level controller, comprising a float casing having a chamber connected with the steam and water spaces of a boiler, a float lever supported within the casing upon a fixed fulcrum, a container completely filled with water and supported upon one end of the lever, a valve rod, means for guiding the valve rod in a rectilinear path, and a link connecting the upper end of the valve rod with the float lever adjacent the fulcrum and upon the opposite side from the container.

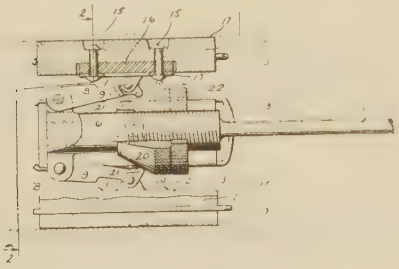
1,418,846. ARTIFICIAL FLOWER. JENNIE E. STEVENS, Ben Lomond, Calif. Filed July 20, 1920. Serial No. 397,751. 6 Claims. (Cl. 41—13.)

1. As an article of manufacture an artificial flower comprising petals of a comparatively rigid fabric; and

radially disposed embroidery stitching covering said fabric with stitches radiating from the apex thereof, said

stitching being overlapping and in various shades and colors appropriate to the type of flower represented.

1,418,847. TOOL. HARRY W. STIMSON, West Allis, Wis. Filed Nov. 12, 1920. Serial No. 423,616. 5 Claims. (Cl. 51—194.)

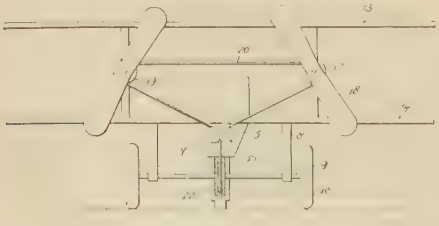


1. A device of the class described, comprising an arbor, a tool member, a link connecting the tool member with the arbor, said link having a yieldable connection with the tool member, and means for adjusting the tool member with relation to the axis of the arbor.

1,418,848. PROCESS OF MAKING ARSENATE INSECTICIDES. WAITSTILL H. SWENARTON, Montclair, N. J. Filed Dec. 10, 1919. Serial No. 343,828. 5 Claims. (Cl. 23—13.)

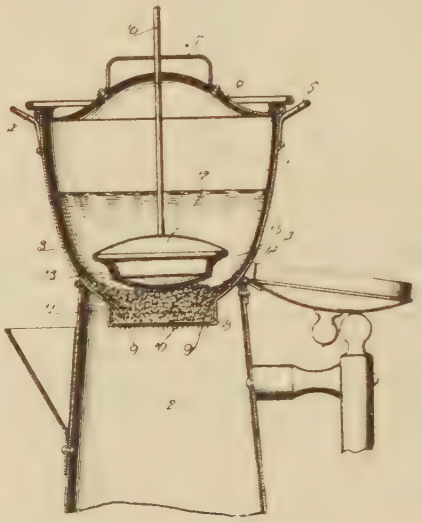
1. The process of making an insoluble arsenate of an insoluble-hydroxide-forming metal, which consists in mixing an alkali-metal salt of a monobasic acid with sufficient arsenic acid to at least convert the major portion of such salt into a soluble arsenate, and causing a compound of an insoluble-hydroxide-forming metal to react with the reaction products of such mixture, removing the insoluble arsenate obtained and repeating the cycle of operations utilizing the resultant filtrate.

1,418,849. TOY AEROPLANE. ANDY Z. THOMAS, Mapleton, Ill. Filed Sept. 16, 1920. Serial No. 410,611. 2 Claims. (Cl. 208—165.)



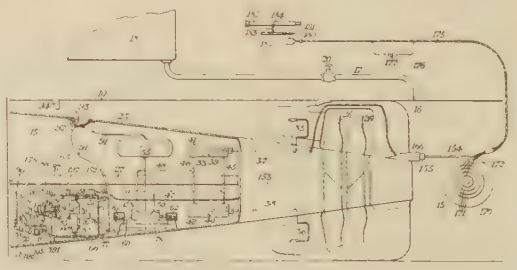
1. A toy aeroplane comprising a fuselage, a transverse plane secured to the forward end of the fuselage, a second transverse plane arranged above the first named transverse plane, struts arranged between the planes and connecting them, propeller shafts connected with the struts, propellers carried by the shafts, a chassis supporting the forward end of the fuselage including an axle and wheels carried thereby, a grooved pulley carried by the axle, grooved pulleys carried by the propeller shafts and angularly arranged with relation to the first named grooved pulley, grooved guide pulleys carried by the aeroplane near its forward end, and a flexible endless element passing about the grooved pulleys of the propeller shafts and the grooved pulley of the axle and the guide pulleys.

1,418,850. PERCOLATOR. OLAF TOLLAGSEN, Chicago, Ill. Filed July 1, 1916. Serial No. 107,027. 3 Claims. (Cl. 251—25.)



1. In a percolating utensil of the class described having an upper percolating chamber and a lower straining chamber of lesser diameter, the combination of a sharp valve seat formed at the juncture of said chambers, a valve removable from said percolating chamber and adapted to seat on said valve seat, said valve being of light sheet metal construction and having an extensive supporting surface of relatively large diameter on its bottom to avoid packing of the grounds, the seat contacting portion of said valve consisting of an annular concave valve face adapted for circumferential line contact with said valve seat, said line contact occurring on said concave valve face at a circumferential line intermediate the maximum and minimum peripheries of said concave valve face, whereby said seat contacting portion is protected against marring.

1,418,851. PREDIRECTING SYSTEM FOR TORPEDOES. ALBERT D. TRENOR, New York, N. Y., assignor to John Hays Hammond, Jr., Gloucester, Mass. Filed June 20, 1917, Serial No. 175,848. Renewed Jan. 14, 1921. Serial No. 437,360. 33 Claims. (Cl. 114—24.)

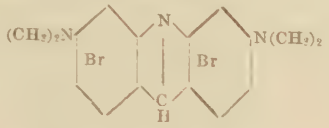


1. The combination with a movable body, of automatic steering means carried thereby, including a rotary element,

transmission means for adjusting said steering means to predirect said body upon a given course, and means controlled by said rotary element to render said transmission means inoperative to control said steering means.

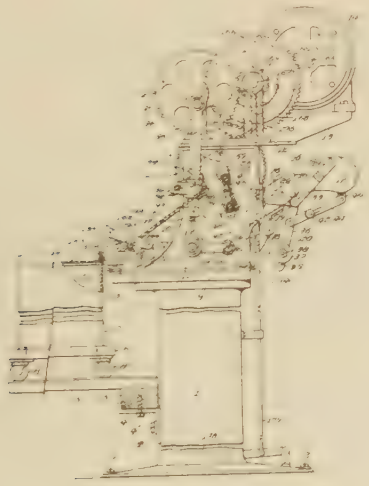
1,418,852. HALOGEN DERIVATIVES OF BASIC ACRIDINE DYESTUFFS AND PROCESS OF MAKING SAME. CHARLES VAUCHER and RENÉ SPEITEL, Basel, Switzerland, assignors to The Society Durand & Huguenin S. Q., Basel, Switzerland. Filed June 13, 1921. Serial No. 477,263. 4 Claims. (Cl. 260—36.)

4. As a new article of manufacture the herein described dibromo-derivative of acridine orange



which dyes leather and tannin-mordanted cotton pure-red shades fast to chlorine.

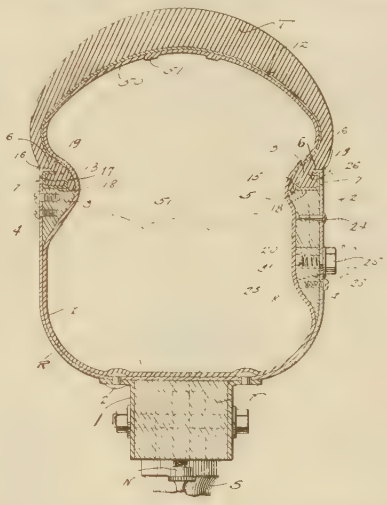
1,418,853. MULTIPLE STAPLING MACHINE. HARRISON B. WALTER, Philadelphia, Pa., assignor to Fibre Container Company, a Corporation of Pennsylvania. Filed Apr. 15, 1919. Serial No. 290,155. 11 Claims. (Cl. 1—13.)



10. In a driving and clinching device for fastening members, the combination of a stationary chuck device, power actuated driving means reciprocable in said chuck, movable clinch means mounted upon said chuck and adapted to be moved to and from a position opposite said driving means, means connected between said clinching means and said driving means and actuated by said driving means to position said clinching means in operative relation with said driving means and means mounted upon said chuck and controlled by the movement of said driving means for locking said clinching means from movement during the driving and clinching operations.

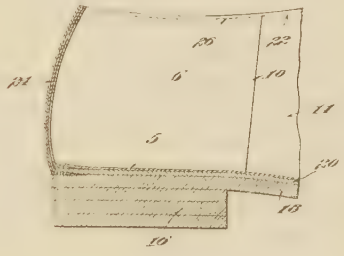
1,418,854. COMBINED WHEEL AND TIRE. JOSEPH S. WEBSTER and HARRY HUNT, Seattle, Wash. Filed Jan. 5, 1920. Serial No. 349,579. 8 Claims. (Cl. 152—13.)

2. In a pneumatic tire, the combination with a casing comprising radially inner and outer parts separable by movement of the outer axially off of the inner, and means for connecting said parts edge to edge; of an inner tube,



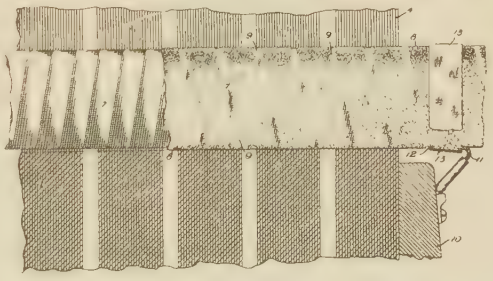
and means around its periphery for automatically contracting it into said inner part when deflated.

1,418,855. HEEL LINING FOR REPAIRING SHOES. HARVARD F. WESTON, Newton Center, Mass. Filed Jan. 12, 1921. Serial No. 436,659. 3 Claims. (Cl. 36—55.)



3. The combination with a boot or shoe of a repair heel lining arranged in the heel portion of said boot or shoe over the usual lining; said repair lining having a straight upper edge stitched to the upper of said boot or shoe by stitching substantially coincident with the vamp stitching.

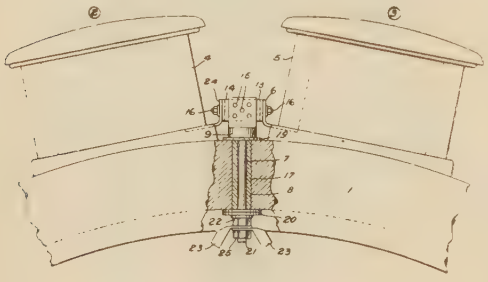
1,418,856. DYNAMO-ELECTRIC MACHINE. ROBERT B. WILLIAMSON, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed May 2 1919. Serial No. 295,011. 15 Claims. (Cl. 171—206.)



13. In a dynamo electric machine, a core having a slot, a conductor in said slot provided with an insulating covering, a continuous conducting layer superposed on said

insulating covering and in intimate contact with the surface of said covering throughout the area of superposition, and an electrical connection between said conducting layer and said core.

1,418,857. DYNAMO-ELECTRIC MACHINE. ROBERT B. WILLIAMSON, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Apr. 5, 1920. Serial No. 372,092. 16 Claims. (Cl. 171—252.)

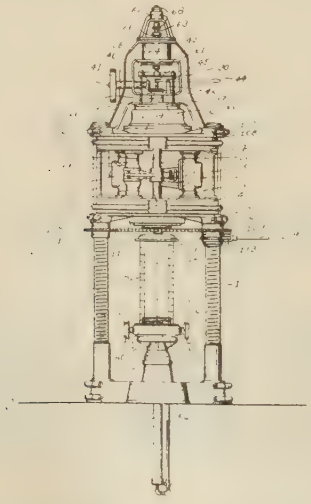


1. In a dynamo electric machine, a revolving field member of the type having a plurality of pole pieces mounted on a core and conducting leads for the field windings passing radially through said core and fastened thereto.

1,418,858. PENCIL SHARPENER. EDSON R. WOLCOTT, Los Angeles, Calif. Filed Nov. 3, 1919. Serial No. 335,349. 4 Claims. (Cl. 120—87.)

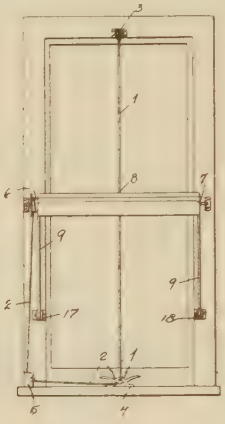
1. A pencil sharpener comprising a tubular body portion having conically extending cutting portions at one end thereof and adapted to cut the end of the pencil to conical shape, and said cutting portions having knife extensions adapted to cut the extreme point of the pencil and separated to permit the pencil point to project between and beyond the same.

1,418,859. CONCRETE-PIPE MACHINE. JULIUS G. ZWICKER, Berkeley, Calif. Filed Apr. 12, 1920. Serial No. 373,169. 30 Claims. (Cl. 25—30.)



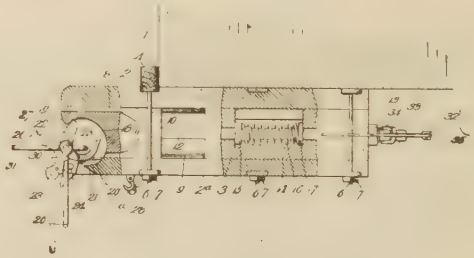
1. A concrete-pipe machine comprising a rotatable inner mold capable of contraction to free the molded pipe; an outer mold capable of contraction to compress the concrete and of expansion to free the molded pipe; means for contracting and expanding said molds; and means for rotating said inner mold.

1,418,860. WINDOW AWNING. JOHN AUERMILLER, Chicago, Ill. Filed Nov. 29, 1920. Serial No. 426,971. 1 Claim. (Cl. 156—44.)



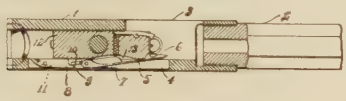
In a window awning the combination of a wooden roller 7, rotatably mounted at the middle of the window and with a spool 6, on the end, a frame 9, pivoted to the window frame at a point below said roller, an awning material doubled, the doubled end fastened to and wound around said roller 7, one-half adapted to go to the top of window, the other half secured at its outer end to said frame to go downward and outward therewith, a pulley 3, on the top of window casing, a cleat 4, secured to the window sill, said cleat being bridged at the base, with an eye over the bridge, a rope 1, fastened to the top half of awning and passed through said pulley 3, then through said eye, a pulley 5, secured to the window sill at a point below said spool 6, a rope 2, fastened to said spool 6, and passed through the pulley 5, then through cleat 4, all arranged as shown and described.

1,418,861. AUTOMATIC CAR COUPLING. BENJAMIN L. BALDWIN, Kansas City, Mo. Filed July 28, 1919. Serial No. 313,792. 5 Claims. (Cl. 213—5.)



1. A car coupler comprising a draw head, a yieldingly advanced coupler head fitting slidably in the draw head and provided with a mouth at its front end and a shoulder depending at the forward portion of the mouth, a coupling jaw pivoted to the lower part of the draw head and when closed extending upward and closing said mouth of the coupler head and engaging the rear side of said shoulder, and means for moving the coupler head rearward until said shoulder rides over and clears said coupling jaw.

1,418,862. FIREARM. GEORGE H. BALL, New Haven, Conn., assignor, by mesne assignments, to The Marlin Firearms Corporation, New Haven, Conn., a Corporation of Delaware. Filed May 15, 1919, Serial No. 297,363. Renewed Nov. 21, 1921. Serial No. 516,906. 12 Claims. (Cl. 42—25.)

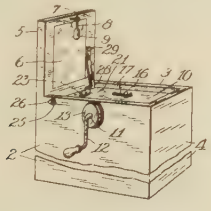


1. In a firearm, a receiver, a breech bolt therein, a groove in said receiver, an ejector movably mounted therein, means independent of the breech bolt to project one end of the ejector into the receiver and means to retain said ejector wholly within said groove, said retaining means being rendered inoperative by the engagement of the breech bolt therewith.

1,418,863. BUFFING MACHINE. HAROLD G. BALLOU, Los Angeles, Calif. Filed Mar. 3, 1921. Serial No. 449,477. 2 Claims. (Cl. 51—172.)

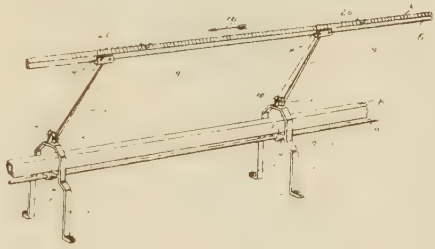
1. A support for power operated tools, comprising a standard, a sleeve mounted in said standard, a forked member rotatably mounted therein, a sleeve pivotally mounted in said forked member, a main drive shaft arranged in said sleeve, a pulley arranged on one end of said drive shaft, a counter-weight arranged on one end of said drive shaft, said pivotally mounted sleeve terminating at a point within the other end of said shaft, a second sleeve surrounding said main shaft, bearings carried by said sleeve, a stub shaft arranged in said bearings, bevel gears arranged on said stub shaft and said main shaft and meshing with each other, and an implement mounted on said stub shaft.

1,418,864. ANIMAL TRAP. CHARLES CAIN, Washington Township, Owen County, Ind. Filed Mar. 31, 1921. Serial No. 457,462. 2 Claims. (Cl. 43—74.)



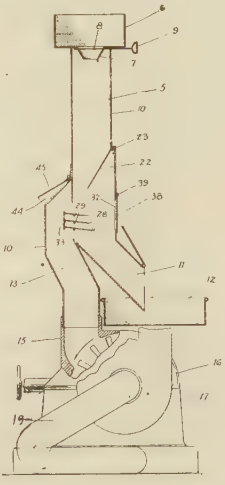
1. A live-animal trap comprising a cage with a head-board on one end thereof, a device on the head-board to support a bait, a shaft rotatable in the upper portion of the cage and having a crank device to rotate the shaft, a spring encircling the shaft and secured thereto and also to the cage, a trap door detachably secured at its middle portion to the shaft and normally closing the top of the cage, a stop device fixed on the inside of the cage, two laterally-movable spring-arms mounted on one side of the trap door on opposite sides respectively of the shaft radially to the shaft to alternately engage the stop device on rotation of the shaft, and two tripping devices mounted on opposite sides respectively of the trap door and adjacent to opposite ends respectively of the door and provided with cranks having pull-rods connected with the spring-arms respectively.

1,418,865. SIGNATURE-CONVEYER SUPPORT. MARTIN CHRISTENSEN, Racine, Wis., assignor to Christensen Machine Co., Racine, Wis., a Corporation of Wisconsin. Filed Mar. 2, 1920. Serial No. 362,872. 4 Claims. (Cl. 198—133.)



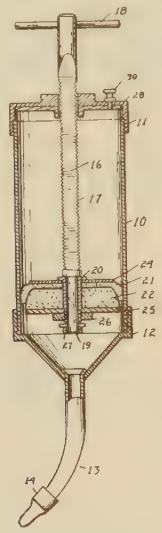
4. In a signature conveyer, a conveyer guide, a conveyer movable along the guide, and a support for the conveyer guide including a lower portion adapted for securing to a supporting base and an upwardly extending arm inclined in a direction opposite to the normal direction of movement of the conveyer and having means on its extreme upper end for securement to the conveyer guide.

1,418,866. SEPARATOR. ALEXANDER J. DENNIG, Minneapolis, Minn. Filed Nov. 18, 1920. Serial No. 424,882. 3 Claims. (Cl. 83—54.)



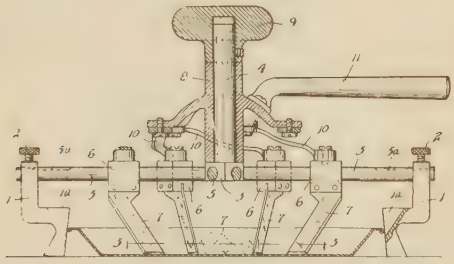
1. A separator including a chute having a lateral opening, a hopper at the upper end of the chute to supply feed material thereto, a refuse passage connected to the lower end of the chute and substantially forming a continuation thereof, a feed passage communicating with the chute through said lateral opening, a deflector pivotally mounted on the chute above said opening and operable to direct the feed material toward said opening, and means to cause an air draft to travel upwardly through the refuse passage across the chute and into the feed passage, whereby the heavier particles of the feed material drop down the refuse passage against the draft and the lighter feed is carried by the draft into the feed passage.

1,418,867. LUBRICATOR-FEED-CONVERTING MEANS. ALBERT W. EDEBORG, Jamestown, N. Y. Filed Oct. 21, 1920. Serial No. 418,395. 3 Claims. (Cl. 74—40.)



1. A device for use with grease guns for converting a screw feed to a slide feed including a member having a screw threaded opening and having a slot extending diametrically across the opening, a plunger rod having a pair of parallel flat sides slidable through the slot and having its remaining sides threaded to engage with the threads of the opening, a rotary member having a corresponding threaded opening and slot the latter movable into and out of register with the slot of the first member and a member constituting the sole means for connecting the rotary member to the first named member so as to hold the rotary and first named member against relative lateral movement and formed to allow of turning of the rotary member.

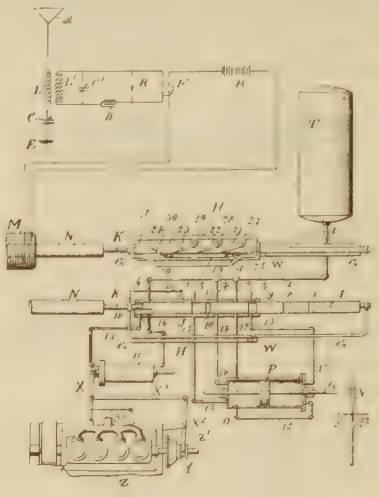
1,418,868. PIE CUTTER. ALEX E. FOGELQUIST, Minneapolis, Minn. Filed Feb. 8, 1922. Serial No. 535,060. 11 Claims. (Cl. 146—12.)



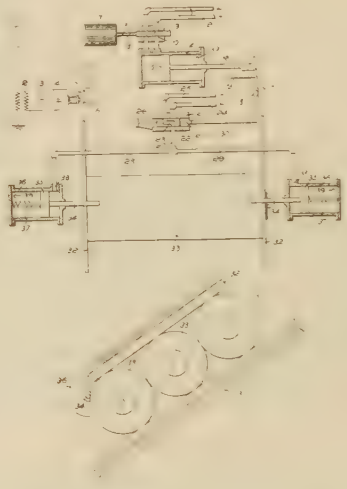
1. A device for cutting pies or similar articles comprising a plurality of radially disposed blades movable from the center of the pie outwardly to the edge thereof in radial planes.

1,418,869. TELEDYNAMIC CONTROL. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Nov. 20, 1913, Serial No. 802,023. Renewed Feb. 9, 1918. Serial No. 216,404. 33 Claims. (Cl. 114—21.)

1. The combination with an electromagnet, of a movable valve member arranged to be actuated by said electromagnet, means for operating said valve member to cause said member to assume and to rest in one of a plurality of predetermined positions after having been actuated to a certain extent and then released by said electromagnet, and a plurality of fluid operated mechanisms separately controlled by said valve member.



1,418,870. RADIODYNAMIC TORCH LAUNCHING MECHANISM. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Aug. 14, 1913, Serial No. 784,690. Renewed Jan. 30, 1919. Serial No. 274,128. 15 Claims. (Cl. 114—21.)



1. In combination, torch supporting mechanism, compressed fluid means for releasing the torches, and means responsive to radiant energy from a distance for operating said compressed fluid means.

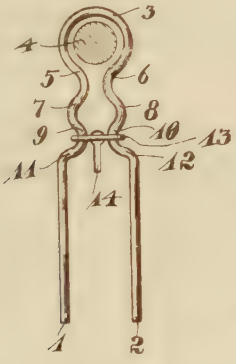
1,418,871. HEATING APPARATUS. JOSEPH HARRINGTON, Riverside, Ill. Filed Nov. 9, 1916. Serial No. 130,351. Renewed Feb. 24, 1922. Serial No. 539,039. 3 Claims. (Cl. 236—1.)

1. In heat control apparatus, in combination, a thermostat having a moving part and low temperature and high temperature contacts, a mechanical stoker, control means therefor comprising positively acting accelerating and positively acting retarding means, a draft damper, control means therefor comprising positively acting means to open and positively acting means to allow said damper to close, electrical connections between said low temperature contact, said accelerating means and said damper opening means, electrical con-

nections between said high temperature contact, said retarding means and said damper closing means and

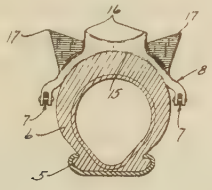
electrical connections between the said moving part of the thermostat and a source of current and between the source of current and each of said control means.

1,418,872. KEY-LOCKING DEVICE. WILLIAM A. HOLQUIST, Los Angeles, Calif. Filed Apr. 7, 1921. Serial No. 459,433. 1 Claim. (Cl. 70—65.)



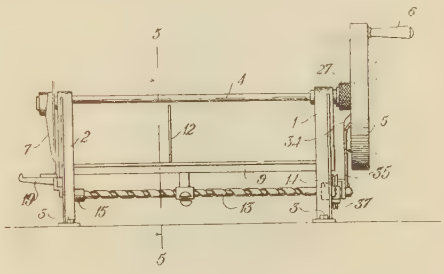
In combination with a door knob and a key, a locking member comprising an elongated body bent upon itself forming a nearly circular portion to engage around the door knob against upward shifting, both ends extending farther downwardly to a point to pass through the handle of the said key to prevent a turning of the key.

1,418,873. NONSKID CHAIN. JOHN IVERSON, Minneapolis, Minn. Filed Oct. 13, 1921. Serial No. 507,512. 9 Claims. (Cl. 152—14.)



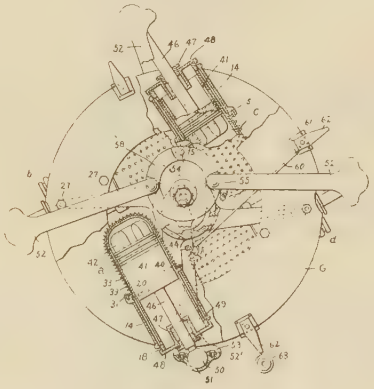
8. A yoke-like traction lug applicable to a tire and having laterally spaced main and auxiliary teeth the points of which are transversely aligned.

1,418,874. BREAD-CUTTING MACHINE. EUGENE W. KNOWLTON, Buffalo, N. Y., assignor to John E. Smith's Sons Company, a Corporation of New York. Filed Mar. 23, 1921. Serial No. 454,696. 5 Claims. (Cl. 146—12.)



1. A bread slicing machine comprising an operating shaft, slicing means driven thereby, a slidable support for a loaf of bread and adjustable means for moving said support, said adjustable means comprising an eccentric member extending about said shaft, an oscillating member driven by said eccentric member, a pin carried by said eccentric member and a setting member provided with a slot for receiving said pin.

1,418,875. INTERNAL-COMBUSTION ENGINE. WESLEY E. LAIRD, Pittsfield, Mass. Filed May 27, 1919. Serial No. 300,045. 11 Claims. (Cl. 123—43.)

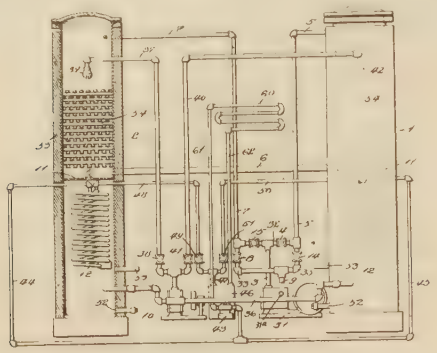


1. In an internal combustion engine, the combination with a stationary member having a journal and two crank portions, of a rotating member turning about said journal portion and provided with cylinders having their axes angularly inclined to the radii of said rotating member, the heads of said cylinders being disposed adjacent the central portion of said rotating member, the piston rods thereof projecting away from said central portion, and a U-shaped connecting rod astride each piston rod having a universal connection therewith arranged to transmit equal portions of the power generated in each cylinder stroke to each crank portion.

1,418,876. APPARATUS FOR RECOVERY OF GASOLINE FROM CASING-HEAD GAS. WALTER R. MCGINNIS, St. Louis, Mo., assignor to Pilsbry-Becker Engineering & Supply Company, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 23, 1919. Serial No. 319,510. 2 Claims. (Cl. 261—20.)

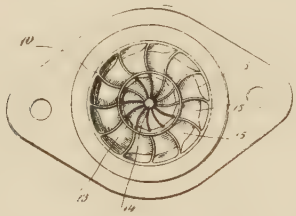
1. In combination, two scrubbers each provided with baffles, refrigeration apparatus, and a sprinkling head;

means for guiding gas under treatment continuously downwardly in one scrubber, then upwardly in the other



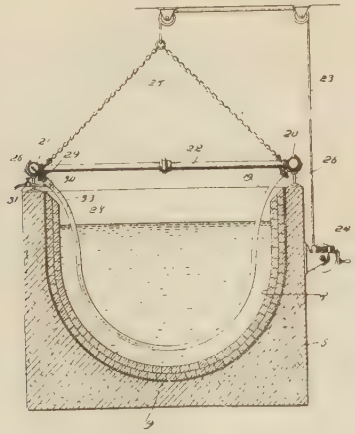
scrubber; and means for reversing said gas movement in the respective scrubbers.

1,418,877. FUEL MIXER FOR GASOLINE ENGINES. LEROY R. MABEE, Hailey, Idaho. Filed Sept. 22, 1920. Serial No. 412,018. 1 Claim. (Cl. 48—180.)



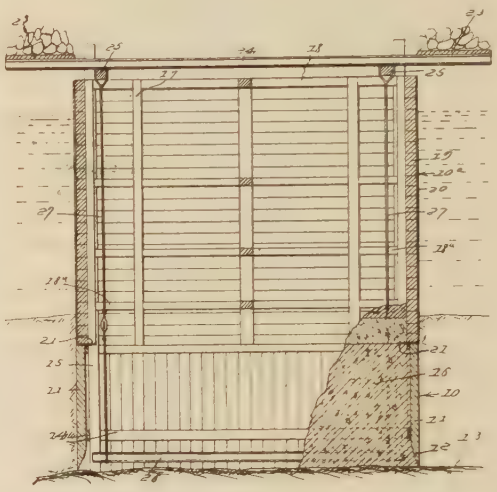
A charge mixing device for an explosive engine comprising a pair of concentric and spaced hollow tubular members, a stem arranged longitudinally and centrally within the inner tubular member, longitudinal ribs extending spirally in one direction between the tubular members, and longitudinal ribs extending spirally between the stem and the inner tubular member in the opposite direction to that of the first spiral ribs.

1,418,878. EVAPORATOR. HERMAN W. PAULUS, Richmond Hill, N. Y., assignor to Royal Baking Powder Company, a Corporation of New Jersey. Filed July 26, 1920. Serial No. 399,081. 6 Claims. (Cl. 23—1.)



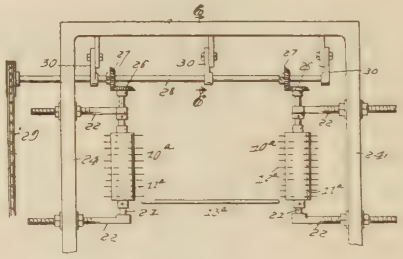
6. An evaporator comprising a tank, a series of U-shaped tubes adapted to be immersed in the liquor contained in the tank and means for supporting the tubes in place.

1,418,879. COFFERDAM CONSTRUCTION. WILLIAM H. RICE, Tiger, Ga. Filed Oct. 3, 1921. Serial No. 505,001. 7 Claims. (Cl. 61—34.)



1. A cofferdam construction having a base member constituting a mold or form for a concrete or cement foundation, an upper member or caisson supported by the base member and having an enclosing wall, and anchoring means for the upper member having an element disposed within the base member and adapted to be embedded in the concrete or cement molded or formed therein.

1,418,880. BRICK-SCORING MECHANISM. WILLIAM F. RICHEY, Ashtabula, Ohio. Filed July 14, 1920. Serial No. 396,174. 1 Claim. (Cl. 25—20.)

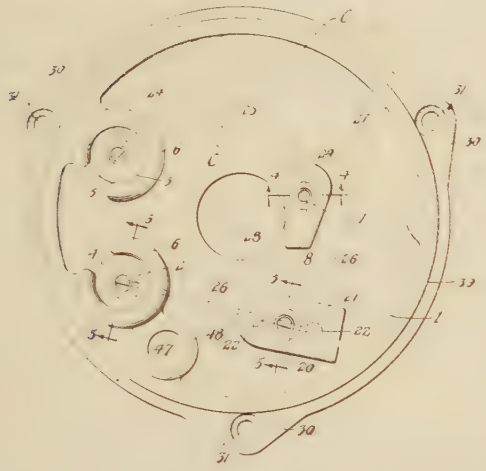


A mechanism for scoring the faces of bricks or blocks prior to the baking thereof comprising a fixed rest, standards disposed respectively on opposite sides of the rest and interconnected at their upper ends to provide a frame, rotary combs disposed on opposite sides of the rest and between it and the standards, the combs being provided with shafts, brackets in which the shafts of the combs are rotatably mounted, the said brackets being provided with threaded shanks extending through longitudinal slots formed in the standards, clamping nuts carried by the threaded shanks and engaging the standards on opposite faces to provide for vertical adjustment of the brackets, a transverse shaft having geared connections with the shafts of the combs, flexible means for imparting rotary motion to said transverse shaft, and adjustable bearing brackets in which said transverse shaft is journalled.

1,418,881. INTERRUPTER MECHANISM. WILLIAM H. RICHTER, Philadelphia, Pa., assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 22, 1919. Serial No. 332,438. 10 Claims. (Cl. 200—19.)

3. Interrupter structure comprising a rigid base member of molded insulating material, fixed and movable inter-

rupter contact member secured thereon and insulated from each other thereby, terminal inserts molded in said member, a condenser molded in said base member, and a connec-



tion for each of said terminal inserts molded within said base member and connecting with a terminal of said condenser and one of said contact members.

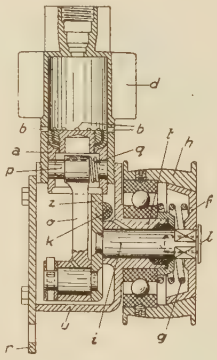
1,418,882. METHOD FOR THE CHLORINATION OF ACETYLENE. KOLOMAN RÓKA, Konstanz, Germany, assignor to the Firm of Holzverkohlungs-Industrie Actien-Gesellschaft, Konstanz, Badenia, Germany, a Corporation of Germany. Filed Feb. 3, 1922. Serial No. 533,961. 5 Claims. (Cl. 23—24.)

1. The improved method of chlorinating acetylene which consists in bringing chlorine and acetylene to reaction at high temperature with the aid of steam.

1,418,883. RANGE-BOILER STAND. ADOLPH SCHEID, Auburn, Ind. Filed May 17, 1921. Serial No. 470,390. 5 Claims. (Cl. 248—41.)

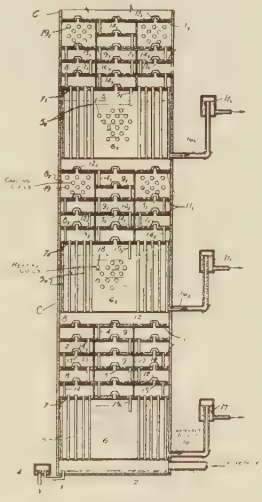
1. A tripod stand comprising separable members having interlocked intercurrent tongues provided with ears having opposed under-cut faces jointly forming a seat, and a further member having a key insertable from below and movable vertically to engage said seat.

1,418,884. PUMP FOR INFLATING THE TIRES OF VEHICLES. KARL HEINRICH SCHMIDT, Duisburg, Germany. Filed Sept. 29, 1920. Serial No. 413,487. 4 Claims. (Cl. 74—14.)



1. In an air pump driven by a belt the combination of a lateral extension of the crank case containing inside the bearing for the crank shaft with an outer bearing for the belt pulley mounted directly by its inner surface on the said bearing.

1,418,885. PROCESS OF FRACTIONAL CONDENSATION. JOHN F. W. SCHULZE, New York, N. Y., assignor to The Barrett Company, a Corporation of New Jersey. Filed June 21, 1919. Serial No. 305,857. 5 Claims. (Cl. 196—5.)

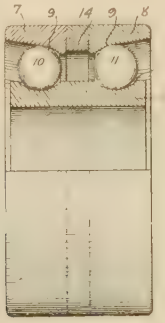


1. The herein described process, which comprises condensing a fraction of a mixed vapor, and concentrating the fraction by heat interchange and dephlegmation with the vapors generated from the fraction by reheating the fraction to a higher temperature than that at which the fraction was in equilibrium with the mixed vapor, by heat transfer from the mixed vapor but out of contact with the mixed vapor.

1,418,886. BALL BEARING. RAYMOND R. SEARLES, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a Corporation of Connecticut. Filed Mar. 29, 1921. Serial No. 456,513. 2 Claims. (Cl. 64—36.)

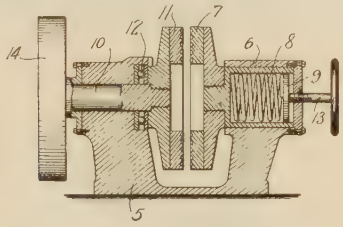
1. In a ball bearing of the unit handling class, two bearing rings, one of said rings being formed of two sections, each of said sections having a ball track thereon, complementary ball tracks on the other section, balls between

said rings, said balls operating to hold said two sections of the two-section rings against separation, a spacer between the edges of said two sections operating to hold said two sections apart and in operative relation with regard

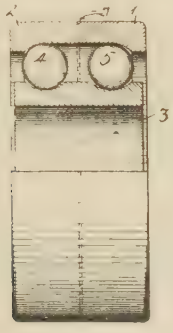


to said balls, and means for holding said spacer in operative position with relation to said two sections to prevent said spacer from projecting beyond the adjacent cylindrical surface of the bearing ring formed by said two sections.

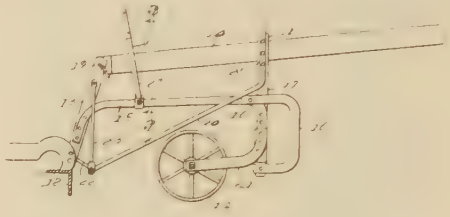
1,418,887. BALL-LAPPING MACHINE. ROLAND WINCHESTER SELLEW, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a Corporation of Connecticut. Filed Oct. 15, 1920. Serial No. 417,207. 4 Claims. (Cl. 51—130.)



1. In a ball lapping machine, a pair of relatively rotatable grinding discs, one of said discs having a plurality of annular grooves therein arranged one within the other, means for receiving balls from more than one of said grooves and positively directing them toward more than one of the others of said grooves.

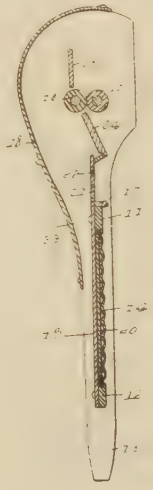
1,418,888. BALL BEARING. ROLAND WINCHESTER SELLEW, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a Corporation of Connecticut. Filed Oct. 19, 1920. Serial No. 417,948. 3 Claims. (Cl. 64—36.)

1. In a double row ball bearing, an inner ring having two separated ball races on the outer side thereof, an outer ring having two separated ball races on the inner side thereof complementary to the races on the first mentioned ring, one of said rings being formed of two sections, each section having one of said ball races thereon, said sections being integrally united by a strip of material welded thereto between the adjacent edges thereof.

1,418,889. LEAD TRUCK FOR HARVESTERS AND BINDERS. ELMER SEVERSON, Deerfield, Wis. Filed July 14, 1920. Serial No. 396,071. 2 Claims. (Cl. 280—84.)



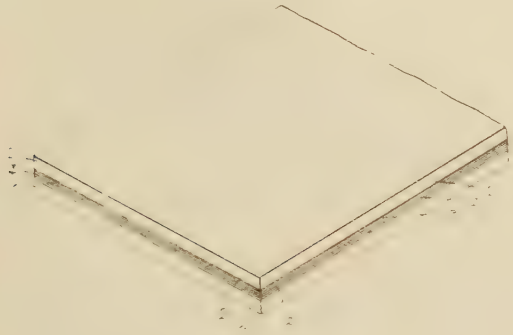
2. A lead truck for harvesters and binders having a frame consisting of a standard for rigid attachment to the binder frame, a forwardly extending beam attached to said standard and provided with a returned bend at its forward end, a draft tongue pivotally connected at its rear end with the upper end of said standard, an upright carried by the returned bend and consisting of spaced parallel members deflected laterally in opposite directions above the beam to provide a guide for disposition in embracing relation with the draft tongue, a lead or pilot wheel having a fork attached to said upright, the fork extending rearwardly from the upright to dispose the lead wheel in a substantially intermediate position below said beam, and a guide in surrounding relation to the draft tongue at the rear and extending upwardly from said beam.

1,418,890. CLOTHES WRINGER. TONY STRAKA and PAUL STRAKA, Fairchance, Pa. Filed May 7, 1920. Serial No. 379,552. 1 Claim. (Cl. 68—29.)



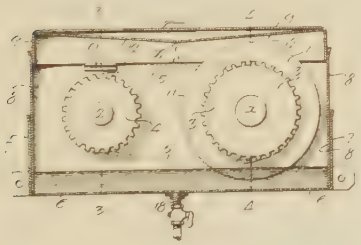
In a clothes wringer, the combination of a frame, rolls mounted in said frame in an approximately horizontal plane and provided with means to rotate them, an inclined feed chute below said rolls, a vertical shield above the rear roll, and a deflector spaced from the rear of the rolls, chute and shield.

1,418,891. LAMINATED FIBER PRODUCT AND PROCESS OF MAKING THE SAME. JOHN M. TAYLOR, Ardmore, Pa., assignor to Diamond State Fibre Company, Elsmere, Del., a Corporation of Delaware. Filed Oct. 27, 1921. Serial No. 510,688. 6 Claims. (Cl. 154—40.)



1. The process which consists in applying to a sheet or fiber a sheet of material impregnated with a phenolic condensation product in its intermediate stage; and thereafter subjecting said sheets to heat and pressure to cause them to inseparably adhere and to change the condensation product to its final insoluble form.

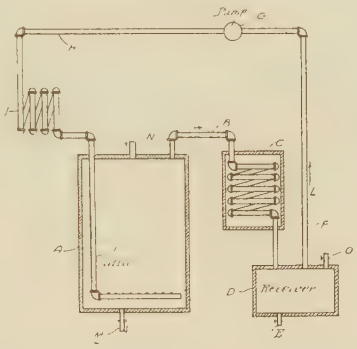
1,418,892. AUTOMATIC OILER FOR CHAINS. CHARLES R. WEISS, Indianapolis, Ind., and CHARLES B. MORRISH, Philadelphia, Pa., assignors to Link-Belt Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 1, 1920. Serial No. 427,462. 2 Claims. (Cl. 184—15.)



1. The combination in means for lubricating a drive chain, of a casing; two sprocket wheels; a drive chain located in the casing, said casing having an oil chamber below the drive chain and sprocket wheels; a disk mounted adjacent to one of the wheels and arranged to turn therewith, the disk extending into the oil in said chamber; and a drip plate in the upper portion of the casing depressed at a point above the chain so that oil, splashed onto the drip plate by the disk will travel to the lowest point and will drip from the plate onto the chain.

1,418,893. DISTILLATION PROCESS AND PRODUCT THEREOF. JOHN M. WEISS, New York, N. Y., assignor to The Barrett Company, a Corporation of New Jersey. Filed Feb. 7, 1920. Serial No. 356,849. 10 Claims. (Cl. 196—27.)

3. A process of tar distillation comprising the repeated circulation of nitrogen through hot tar at a rate of from 1 to 20 cu. ft. per 100 gals. of tar per minute substantially as described.

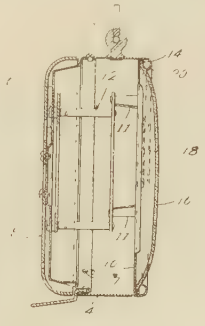


8. As an article of manufacture, a pitch obtained by the distillation of tar, said pitch having a melting point about 350° F.

1,418,894. SHOE PLATE. MANSFIELD M. WEST, Cleveland, Ohio, assignor to The Universal Shoe Plate Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 30, 1917. Serial No. 188,901. 1 Claim. (Cl. 36—74.)

A shoe plate constructed of sheet metal and comprising a body portion having a convexed outer edge and straight ends substantially normal thereto and an inner edge connecting said ends, a prong depending from each end and inset a comparatively short distance from the aforesaid outer edge whereby it is removed from the region of greatest wear, and a prong depending from each end of the inner edge; the material of the body portion by reason of the latter's shape being properly distributed with regard to the wear imposed thereon when the plate is in use and so as to cause the plate to stand alone preparatory to driving it.

1,418,895. METAL CLOCK. CHARLES E. WILLIAMS, Winsted, Conn., assignor to William L. Gilbert Clock Company, Winsted, Conn., a Corporation of Connecticut. Filed Feb. 23, 1922. Serial No. 538,656. 3 Claims. (Cl. 58—54.)

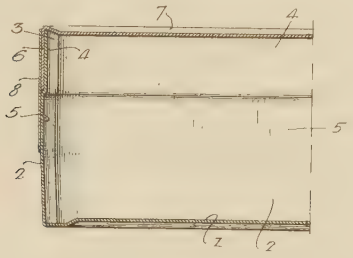


3. A clock of the class described having, in combination, a clock case, a dial, means for holding the dial in place within said casing, and a curved crystal positioned over the dial and engaged thereby, said clock casing having an inwardly turned flange on its forward end engaging the margin of the crystal to cooperate with the dial to hold the crystal in place.

1,418,896. PROCESS FOR MANUFACTURING MATERIAL SUITABLE FOR WALL COVERING, PUTTY, OR THE LIKE. KUNO WOLF, Berlin-Charlottenburg, Germany, assignor to Elektroosmose Aktiengesellschaft (Graf Schwerin Gesellschaft), Berlin, Germany, a Corporation. Filed Aug. 1, 1921. Serial No. 489,077. 3 Claims. (Cl. 106—29.)

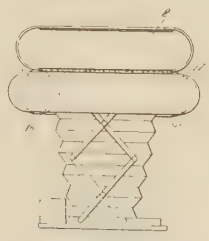
1. In a process of manufacturing material suitable for wall covering, putty and the like, the following steps: Weakly glowing condensed magnesite, dry slaking the same after cooling and then calcining the resulting product; dissolving crystallized chloride of magnesium in water, boiling until an intensely concentrated solution has formed and then filtering said solution; finally mixing the two products resulting, that is, the oxide of magnesium and the magnesium chloride solution.

1,418,897. BOX. CHARLES T. WOOTTEN, deceased, late of Philadelphia, Pa., by David Bowers, executor, Laurel Springs, N. J., assignor to Manufacturing Company of America, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 24, 1920. Serial No. 433,002. 6 Claims. (Cl. 220—42.



1. A pressed up sheet metal box body of rectangular outline having the main portion of its sides bulged outwardly to leave the remaining portions thereof in the form of a neck of the same outside dimensions as the bottom of the box; and a cover having a flange formed to fit said neck.

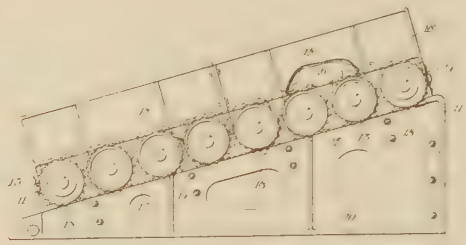
1,418,898. STAND FOR CAMERAS. LESLIE DOUGLAS WRIGHT, London, England. Filed July 14, 1921. Serial No. 484,708. 4 Claims. (Cl. 248—44.)



1. A device for supporting a small or pocket camera comprising a hollow casing having the normal outline of a walking stick or umbrella handle, the said casing having a movable lid or cover and internal walls or partitions between which the end of a camera may be positioned, and means for clamping the camera between said walls substantially as described.

1,418,899. SCREENING APPARATUS. WILEY S. ACKEN, Jersey City, N. J., assignor to Robins Conveying Belt Company, a Corporation of New Jersey. Filed Jan. 28, 1920. Serial No. 354,672. 1 Claim. (Cl. 83—56.)

A screening apparatus for the purpose described comprising a supporting frame, a plurality of spaced-apart parallel shafts, means for actuating said shafts, and a series of peripherally toothed disks on each of said shafts, each series of disks extending into the spaces between the disks of the adjacent shafts and relatively near to said shafts, each disk having at least one long tooth



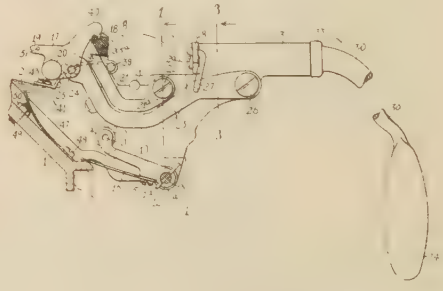
positioned to turn in close relation to the adjacent shafts and thus break up any material that may tend to clog between the periphery of the disk and an opposing shaft, and the disks of each series being so disposed that the long teeth thereof are out of alinement with each other.

1,418,900. PROCESS FOR THE MANUFACTURE OF NEW MONO- AND DI-β OXYETHYL AMINO-BENZOIC ESTERS. JEAN ALTWEGG and JOANNY LANDRIVON, Lyon, France, assignors to Societe Chimique des Usines du Rhone (Anciennement Gilliard, P. Monnet et Cartier), Paris, France. Filed June 13, 1919. Serial No. 303,972. 1 Claim. (Cl. 260—105.)

The new industrial products comprising the β-oxyethyl-paramino benzoic acid ethyl esters having the formula

$$HO-CH_2-CH_2-NH-C_6H_4-COOC_2H_5$$

1,418,901. TYPEWRITING MACHINE. JOHN H. BARR, New York, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Jan. 26, 1921. Serial No. 440,035. 26 Claims. (Cl. 197—114.)

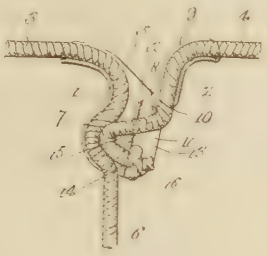


1. In a typewriting machine, the combination of a platen carrier, a platen, a line spacing wheel connected to the platen, a rock shaft on said platen carrier, a lever connected thereto, an arm movable in the plane of said lever, and a pawl carried by said arm and directly connected with said lever, said pawl being operative by said lever to coact with said line spacing wheel.

1,418,902. ROPE GRIP. ANNA BAUER, Union, N. J. Filed Jan. 9, 1922. Serial No. 528,014. 5 Claims. (Cl. 24—133.)

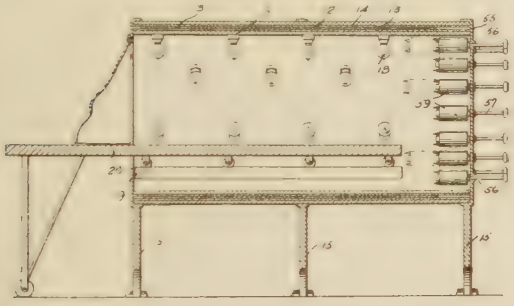
1. An improved rope grip for lines comprising companion members mechanically associated for relative move-

ment, said members receiving opposite ends of the rope from the line for forcing such ends against one another



to bind the two ends of the rope in the rope grip, said companion members being moved to grip the rope automatically by the tightening of the line.

1,418,903. ELECTROMAGNETIC WAVE BATH. WILLIAM S. BENSON, Newark, N. J. Filed Sept. 14, 1921. Serial No. 500,560. 15 Claims. (Cl. 174—177.)



1. In electro-therapeutics, a body receiving electromagnetic coil, means within said coil for applying light and heat to portions of the body within the coil, means also within the electromagnetic coil for generating variable induced currents and applying same to portions of the body under treatment, and means for periodically gradually increasing and decreasing the force of said magnetism, heat, light and applied electricity.

1,418,904. PROCESS FOR THE MANUFACTURE OF AROMATIC OXYALDEHYDES. FLORENTIN BIDAUD, Lyon, France, assignor to Societe Chimique des Usines du Rhone (Anciennement Gilliard P. Monnet et Cartier), Paris, France. Filed Feb. 26, 1921. Serial No. 448,170. 6 Claims. (Cl. 260—137.)

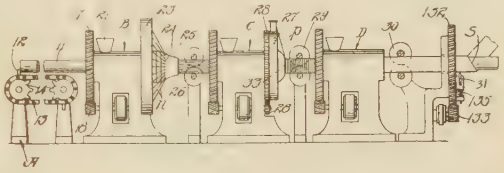
3. A process for the manufacture of vanillin consisting in causing guaiacol to react, with methylal in the presence of a nitroso compound and hydrochloric acid.

1,418,905. PLASTIC COMPOSITION. KENNETH L. BINKLEY, New York, N. Y., assignor to The Barrett Company, a Corporation of New Jersey. Filed Nov. 29, 1920. Serial No. 427,019. 3 Claims. (Cl. 106—32.)

1. A composition of matter comprising pitch and magnesium carbonate, said composition having a melting point of about 200° F.

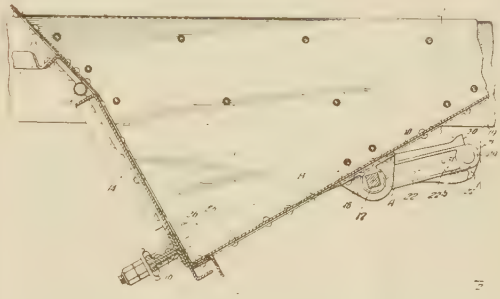
1,418,906. MACHINE FOR AND METHOD OF MAKING CORD-TIRE STOCK. JOSEPH B. BRENNAN, Lexington, Mass. Filed June 9, 1919. Serial No. 302,833. 5 Claims. (Cl. 154—1.)

4. A machine for making tire stock comprising a longitudinally movable mandrel, mechanism for laying a coating of gum on the said mandrel, mechanism for superposing a layer of parallel cords thereon, mechanism for



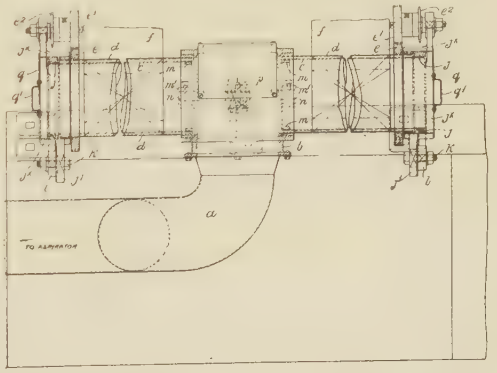
laying a layer of circumferential cords, and mechanism for slitting the tube thus formed.

1,418,907. DOOR-OPERATING MECHANISM. ARGYLE CAMPBELL, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 17, 1921. Serial No. 508,318. 13 Claims. (Cl. 105—299.)



1. In an operating mechanism for a pivoted door, the combination with a shaft rotatable about an axis parallel to the pivotal axis of the door, said shaft having an arm rigid therewith and extending therefrom on the side away from the door when the latter is in closed position; a stiff link pivotally connected at one end to said arm and extending across said shaft when the door is in closed position; means operatively connecting the opposite end of said link to the door; and cooperable shoulders on said link and arm located to one side of a line extending from the effective point of connection with the door through the center of the shaft.

1,418,908. COMBING MACHINE. JAMES WILLIAM CLEGG, Oldham, England. Filed Feb. 12, 1920. Serial No. 358,289. 2 Claims. (Cl. 19—116.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

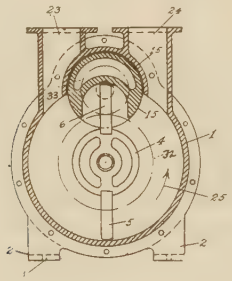


1. In a combing machine, the combination of an inner stationary tube and an outer rotatable tube, and an aspirator in communication with said tubes at one end thereof, the outer end of said inner tube extending beyond the outer tube and provided with a detachable cover.

1,418,909. SOUND-TRANSMITTING MEANS. HARRY J. DURBOROW and BAYARD L. WINDERS, Philadelphia, Pa. Filed Mar. 18, 1920. Serial No. 366,818. 3 Claims. (Cl. 181—27.)

1. A sound amplifier made of elongated sections of laminated fibrous material in which the length of the fibers extend in the direction of the length of the sections, said sections being of arcuate cross section convex on the outer surfaces and concave on the inner surfaces and flaring from one end to the other whereby the cross sectional arc increases from one end to the other, the fibers of the sections being longest at the side edges and becoming gradually shorter from portions between the side edges of each section adjacent the narrow end toward the wide end, said side edges of the sections being connected together; substantially as described.

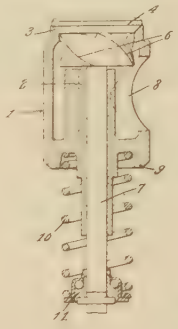
1,418,910. BLOWER. NELSON E. FUNK, Montclair, N. J. Filed Feb. 6, 1919. Serial No. 275,294. 2 Claims. (Cl. 230—30.)



1. The combination of a casing having a substantially annular passage and provided with an inlet and outlet, an impeller comprising a drum of substantially circular cross-section and a pair of blades, each of said blades being formed of rigid material and extending over substantially the full width of said annular passage, each blade having a sealing face formed of an odd number of convex portions, the curvature of the central convex portion being less than the curvature of the remaining convex portions, a single circular rotary abutment disposed between said inlet and said outlet, said abutment means being provided with a hollow valvular portion having a face formed of an odd number of concave portions, the curvature of the central concave portion being greater than the curvature of the remaining concave portions and gearing means for said impeller and said rotary abutment means.

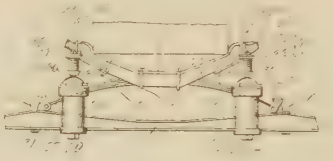
1,418,911. VALVE. JEW GARLICK, Paterson, N. J. Filed May 26, 1919. Serial No. 299,728. 1 Claim. (Cl. 251—129.)

In an internal combustion engine, a cage having a side opening and provided at one end with an internal longitudinal guide, the cage having a seat at its other end; a stem slidable in the guide and journaled therein; a valve on the stem and cooperating with the seat; and circumferentially inclined blades connected with the stem and with the valve, the blades substantially filling the cage transversely, and substantially filling the space between



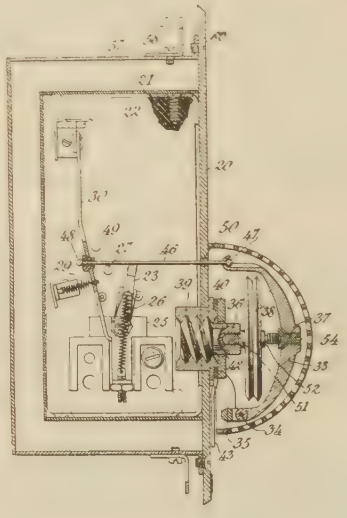
the inner end of the guide and the seat, the opening being of sufficient size so as to expose the inner ends of the blades.

1,418,912. CUSHION MECHANISM. EDWARD J. GLACKIN, Chicago, Ill. Filed Mar. 7, 1921. Serial No. 450,242. 16 Claims. (Cl. 267—31.)



2. In a vehicle, the combination with a chassis, of a body, bow springs interposed between the axle and the body, two pneumatic cylinders attached to each of said axles toward the sides of the body, a plunger cooperating with each of the cylinders, said plungers being secured to the ends of the body beams to which the centers of the bow springs are secured, brace rods extending from the ends of the rear axle to the reach, and tie pieces extending from the base of the rear cylinders to the brace rods.

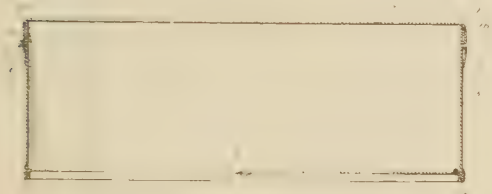
1,418,913. PROTECTED THERMOSTAT. EDWARD E. GOLD, New York, N. Y., assignor to Gold Car Heating & Lighting Company, New York, N. Y., a Corporation of New York. Filed Mar. 10, 1921. Serial No. 451,191. 5 Claims. (Cl. 200—140.)



1. A thermostat comprising an electric outlet box, a cover plate therefor, an electric switching device mounted

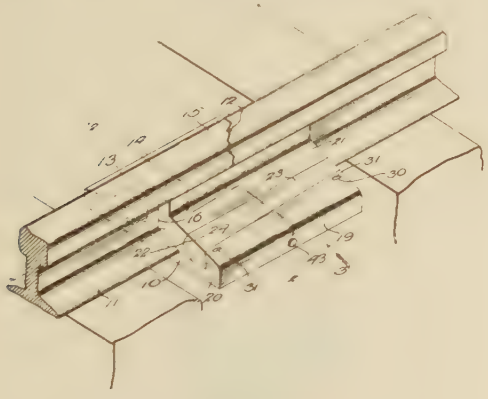
on the inner face of said plate and housed by said box, a thermo-motive controlling element for said device mounted on the outer face of said plate, said plate serving as a shield to prevent access to the electric parts of said thermostat housed in said box.

1,418,914. VACUUM CONTAINER. HERMAN GOLDSMITH, New York, N. Y., assignor to The American Tobacco Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 28, 1921. Serial No. 448,382. 11 Claims. (Cl. 220—53.)



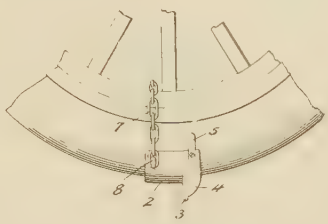
1. A metal container adapted to be exhausted to produce a vacuum receptacle; said container comprising a body, a cover hinged thereto and means separate from the cover hermetically sealing the cover to the body, said means overlying and enclosing the hinge; the said means being adapted for removal for breaking the seal, the cover after removal of said means being freely movable on its hinge.

1,418,915. RAIL SPLICER. MATT GRISAK, Dubois, Pa. Filed Apr. 8, 1922. Serial No. 550,743. 2 Claims. (Cl. 238—203.)



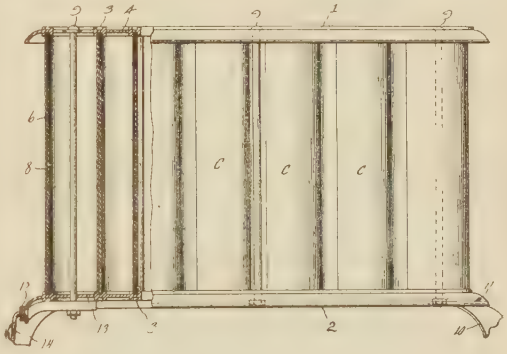
1. A rail splice joint comprising a chair having a permanent abutment along one side conformed complementary to the rail to which it is to be applied and an abutment along the opposite side spaced away from the position of the rail and provided with an under-cut, an abutment sliding laterally relative to the rail and tending to engage the rail opposite the first-mentioned permanent abutment and provided with a groove, the proximate sides of the last two mentioned abutments forming a tapered wedge-way, a wedge formed to slide into the wedge-way and clamp one abutment against the rail, exerting stress upon the other two permanent abutments, said chair being provided with a laterally-extending slot in its under side, a spring-pressed sliding bolt mounted in the chair and engaging a recess in the wedge, said sliding bolt having a recess registering with the slot in the chair providing means for inserting a hooked implement through the slot into the recess to withdraw the sliding bolt from locking engagement.

1,418,916. ANTISLIPPING DEVICE. JOHN D. GROOVER, Atlanta, Ga. Filed Mar. 27, 1922. Serial No. 547,156. 5 Claims. (Cl. 152—14.)



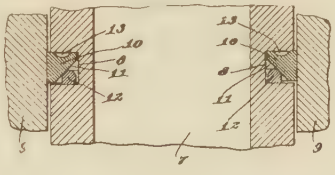
1. In combination with a motor vehicle wheel, an antislipping device comprising a body having a projection presenting a wide radial traction surface adjacent one end of said body, means for frictionally connecting said end with the sides of the wheel tire, and means for detachably connecting the other end of said body with the wheel rim.

1,418,917. ELECTRIC HEATER. WILLIS W. HALE, Cleveland, Ohio. Filed Jan. 31, 1920, Serial No. 355,372. Renewed May 6, 1921. Serial No. 467,320. 21 Claims. (Cl. 219—34.)



1. A heater including opposed plates having corresponding channels therein, sheets having edge portions thereof received within the channels, means connecting the opposed plates to hold the parts in an assembled relation, and heating means between the sheets.

1,418,918. PISTON PACKING. ANDREW F. HALL, West Somerville, Mass., assignor to Pressure Proof Piston Ring Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 22, 1920. Serial No. 425,608. 5 Claims. (Cl. 74—109.)



1. A packing for use with a piston having a circumferential groove, comprising a ring provided with spaced, cup-like depressions in its side surface whereby such ring is caused to adhere by suction to a wall of the groove.

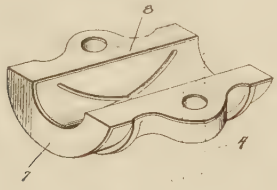
1,418,919. HINGE. ROY LEVERNE HALL, Portageville, Mo. Filed Jan. 20, 1922. Serial No. 530,609. 2 Claims. (Cl. 16—188.)

2. A hinge comprising companion members having offstanding portions at their inner or pivotal ends which

are pivotally connected, each of the members having opposed lateral projections a like distance from the

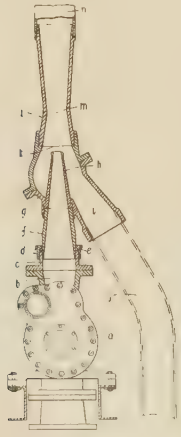
hinge joint, and contractile helical springs at opposite sides of the hinge and having their ends connected to said lateral projections.

1,418,920. COMBINED BEARING SHIM AND WEAR-COMPENSATING WASHER. JOHN G. HAMLIN, Tallahassee, Fla. Filed Nov. 21, 1921. Serial No. 516,667. 4 Claims. (Cl. 64—55.)



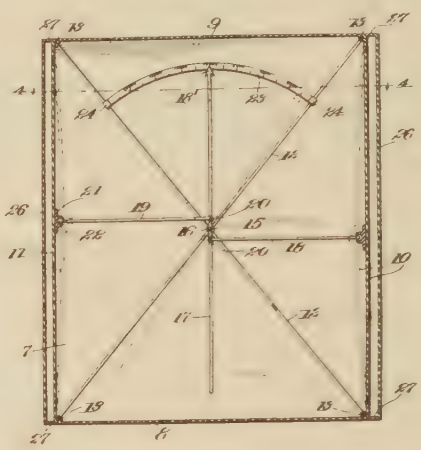
1. A wear compensating attachment for bearings, comprising a half washer portion, and shim forming plates projecting at right angles from spaced portions of said half washer.

1,418,921. ROTARY PUMP WITH EJECTOR. GEORGE HANDLEY, Palmers Green, England, assignor of one-half to Percy William Bullock, London, England. Filed Nov. 23, 1920. Serial No. 426,039. 1 Claim. (Cl. 162—1. (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



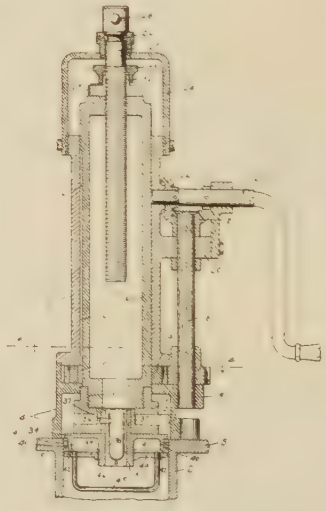
The combination, with a rotary displacement pump, of a Venturi tube ejector, which is arranged in the outlet conduit of said pump and comprises a jet chamber having a shouldered socket, a nozzle fitting into said shouldered socket in said jet-chamber, a conical tube having its smaller end engaging said shouldered socket in said jet-chamber, and a gland connected to the outlet of said pump and securing the larger end of said conical tube.

1,418,922. ALTITUDE METER. ANDREW HARILA, Park City, Utah. Filed Nov. 20, 1918. Serial No. 263,323. 8 Claims. (Cl. 73—4.)



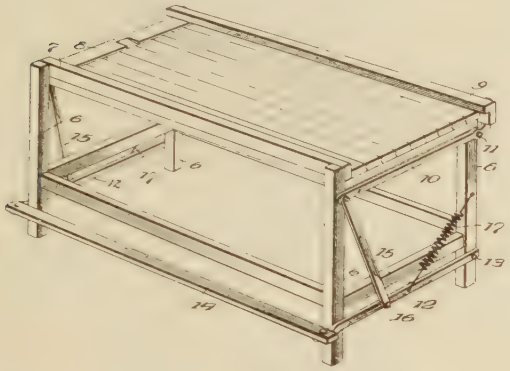
1. An indicator of the class described having a hermetically closed casing, elastic side walls, indicating mechanism mounted on the casing, means connecting said elastic walls to said indicating mechanism, and guarding means rigid with the casing covering said elastic walls.

1,418,923. BORING MACHINE. CLARENCE M. HAVILAND and LEON C. BROWN, Minneapolis, Minn., assignors, by direct and mesne assignments, to Lillian M. Haviland, legatee. Filed May 18, 1918. Serial No. 235,337. 7 Claims. (Cl. 77—2.)



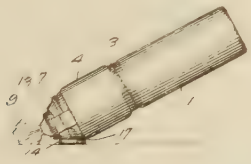
1. A boring machine comprising a base having means for mounting it on an engine cylinder, a barrel supported by said base, a sleeve mounted within said barrel and vertically movable therein, a tool carrier supported by the lower end of said sleeve, a shaft mounted in said base and geared to said sleeve for revolving it, a yoke mounted on said barrel, and a screw mounted in said yoke and depending within said sleeve and having threaded engagement therewith.

1,418,924. WORK-CLAMPING BENCH. OTRED HODGKINSON, Oakdale, La., assignor to Frank J. Treka, New Orleans, La. Filed Sept. 9, 1921. Serial No. 499,493. 1 Claim. (Cl. 144—291.)



A device of the character described comprising a work assembling table having a top surface and supporting legs at each corner of the same, a stationary abutment along the front edge of the top surface, a movable abutment at the opposite edge, an arm pivotally mounted upon each rear leg and at the upper portion of the same, said arms carrying at their rear end the said movable abutment, the said arms extending forwardly from their pivots to the front of the table, a second arm pivotally mounted upon the lower portion of each of said rear legs, said second arms extending to the front of the table and substantially parallel with the first named arms, a third arm connecting the forward end of each of the first named arms with the second named arms at a point midway of the length of the latter, a spring attached at one end to one of the rear legs and at its other end to one of the second named arms, and a foot pedal connecting the forward ends of each of the second named arms and extending across the front of the table.

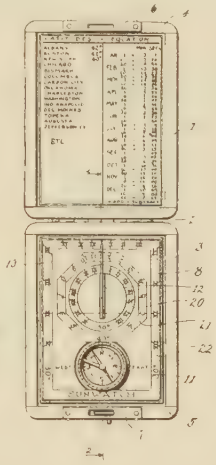
1,418,925. APPLIANCE FOR CLEANING TUBES. CHESTER D. HOFF, Winchester, Wash. Filed Oct. 20, 1921. Serial No. 509,093. 3 Claims. (Cl. 152—27.)



1. A device of the class described comprising an applying element, a scraping element located adjacent the applying element and adapted to cooperate with said element in a cleaning operation.

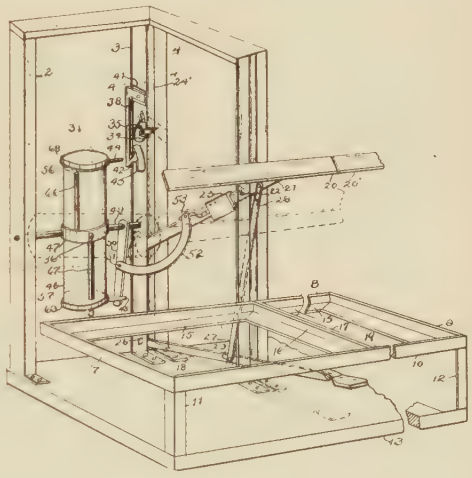
1,418,926. COMBINATION COMPASS AND SUN DIAL. GEORGE HOLLINWOOD, Cranford, N. J. Filed Apr. 20, 1921. Serial No. 463,040. 5 Claims. (Cl. 33—222.)

1. In an instrument of the class described, in combination, a base member, a compass mounted thereon, a sun-dial carried by said base member, said sun-dial being provided with a plurality of rows of time indicating characters, each of said rows of characters being adapted to be utilized for a predetermined latitude, and said sun-dial being provided with a pivotally mounted style adapted to be set in different positions corresponding to the latitude where the instrument is to be used,



whereby said style will read on different rows of characters in accordance with its different positions.

1,418,927. EGG-DIPPING MACHINE. OSCAR F. HOLMBERG, Chicago, Ill. Filed Mar. 8, 1920. Serial No. 364,264. 3 Claims. (Cl. 99—2.)

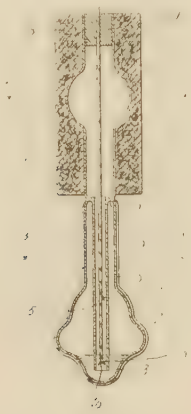


3. The combination with a bearing-frame, of a lever-arm pivoted on said frame, means for temporarily supporting a tank on said frame, a track-rail having a movable section mounted on said lever-arm, means for swinging said lever-arm to lower said movable section over the supporting means for said tank, an automatically operating catch-mechanism for temporarily arresting said lever-arm and lowered position of said movable section, a timing mechanism and means for variably adjusting same, and means actuated by said timing mechanism for restoring said movable section into its normal position as a portion of said track-rail.

1,418,928. THERMOSTAT. JOHN FREDERICK RORSHAM, Laurel Hill, N. Y. Filed Oct. 17, 1918. Serial No. 258,664. 3 Claims. (Cl. 200—141.)

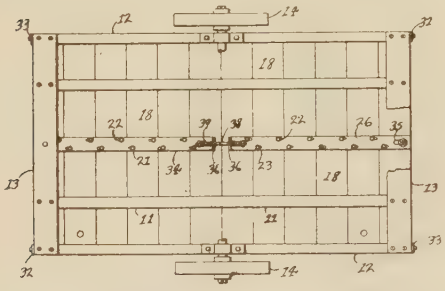
1. In a thermostat, a pair of separated air chambers each of which is closed to the outer air, a contact-

bridging liquid in one of said chambers, a conduit leading from the lower portion of the other one of said chambers into the first mentioned chamber and having one end extending downwardly into the said liquid, electrical



contact members one of which is located in the said conduit above the normal level of the said liquid and a heat-insulating jacket enclosing the chamber from which said conduit leads.

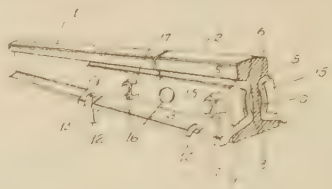
1,418,929. TRUCK BODY. CHARLES L. HOUSE, San Francisco, Calif. Filed June 25, 1920. Serial No. 391,602. 1 Claim. (Cl. 280—49.)



The combination with a wheeled frame having a pair of end sills, of a truck body including side walls, end walls, and a flooring made of a plurality of board sections, means for attaching said body to the end sills of said frame, and means to allow for the expansion of the side walls, end walls, and flooring of said body, comprising slotted straps for the side and end walls each of a length to overlie two adjacent board sections, and pins on said board sections seated free to slide in the slots of said straps, the means serving to allow expansion of the flooring comprising a binding clamp fixed to the flooring transversely to the board sections thereof and made into parts with its confronting ends joined by a spring tension device, each one of the board sections of the flooring being separately attached to the binding clamp, and the attaching means therefore comprising pins on the said board sections with slots in the binding clamp in which said pins are seated and free to slide.

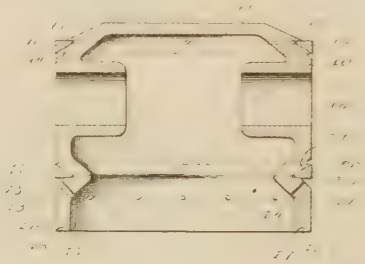
1,418,930. RAILWAY RAIL JOINT. JACOB A. HYLE and GEORGE W. WHITEMAN, Philadelphia, Pa. Filed Oct. 20, 1921. Serial No. 509,107. 7 Claims. (Cl. 238—244.)

1. A rail joint of the character described, comprising track rails, a splice bar having an excess of metal at its lower and upper portions and a thickened portion at the inner curved end of said lower and upper portions with a recess formed within its outer face, and a thin web



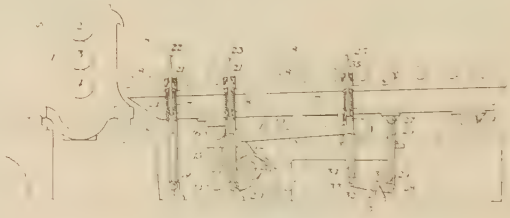
member, and means fitted within said recess for causing said lower and upper portions to be flexed against the rail tread and a portion of the rail web.

1,418,931. PISTON AND PISTON RING. HARRY B. JOHNSTON, Seattle, Wash. Filed Apr. 15, 1922. Serial No. 552,944. 2 Claims. (Cl. 74—109.)



1. A hollow piston having a groove, the groove having an inclined wall, the wall of the piston being provided with a hole to communicate with the groove to permit the pressure of the interior of the piston to communicate with the groove, a metallic ring in the groove, the ring having an inclined surface to cooperate with the inclined wall of the groove.

1,418,932. MANIPULATOR. LLOYD JONES, Pittsburgh, Pa., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 24, 1920. Serial No. 426,208. 11 Claims. (Cl. 80—48.)

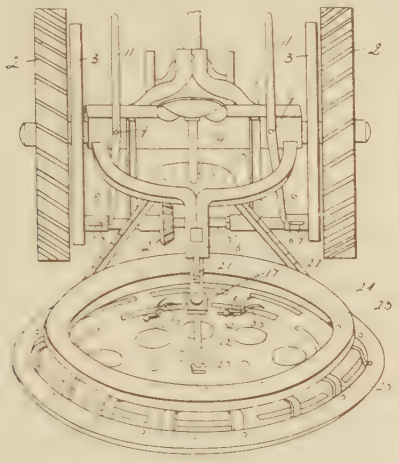


1. In a manipulator, the combination of a feed table upon which the material under treatment is placed, said table being pivoted near one of its ends, means for raising and lowering the free end of the table, a plurality of manipulating elements arranged at different points along said table and means whereby a substantially equal relative vertical movement is produced between said table and all of said manipulating elements for turning and sliding the material under treatment preparatory to the next operation, substantially as described.

1,418,933. ROTARY HARROW. FRANK KIRSCHKE, Philadelphia, Pa. Filed Apr. 23, 1920. Serial No. 375,925. 4 Claims. (Cl. 55—20.)

1. A rotary harrow comprising a turn table, a plurality of disintegrating wheels revolubly mounted upon the turn table and means revolving said turn table.

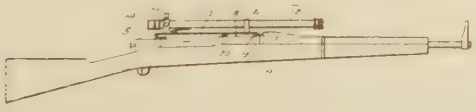
2. A rotary harrow comprising a rotatable turn table having slots therein, means for rotating said turn table,



and toothed disintegrating wheels mounted on said turn table and projecting through said slots.

1,418,934. LINK BUTTON. ELIOTT KLAWANS, Washington, D. C. Filed Sept 6, 1921. Serial No. 498,745. 1 Claim. (Cl. 24—102.)

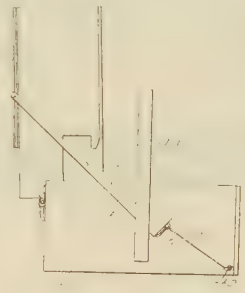
A button of the class described comprising a pair of button parts, links connected with one part, a socketed projection on the outer part, the end links being of bow-shape, a member pivoted to the end link and having a rounded projection for engaging the socket in said socketed part and a strap connecting the other bow-link with its button part.

1,418,935. TELESCOPE MOUNT FOR RIFLES. WILLIAM B. KNOBLE, Tacoma, Wash., assignor of one-half to Arthur L. Johnson, Seattle, Wash. Filed Feb. 24, 1920. Serial No. 360,778. 6 Claims. (Cl. 33—50.)

1. The combination with a rifle, of a telescope-mount comprising two spaced telescope-receiving standards, a resilient blade connecting said standards, and elements depending respectively from the front and rear ends of said blades for detachably securing said mount to the rifle.

1,418,936. TOY. JAN KOLANOWSKI, Hegewisch, Ill. Filed July 8, 1921. Serial No. 483,189. 3 Claims. (Cl. 46—32.)

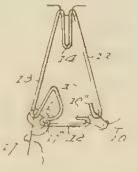
1. A musical top comprising a cylindrical casing having heads at each end, an axial spindle passing longitudinally through said casing, means for rotating said casing, a ring fixed in said casing, a plurality of reeds fixed to said ring, and means revoluble on said spindle for making contact with said reeds, said means being actuated by an air current entering a tangential slot in said casing.

1,418,937. DUMP WAGON. JOHN L. KOLBE, Crookston, Minn. Filed June 13, 1919. Serial No. 303,925. 3 Claims. (Cl. 298—18.)



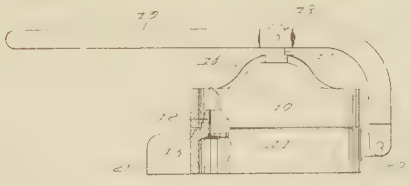
1. A dumping body wagon having a supporting frame provided with end walls, a tilting body mounted for movement between said walls; the frame being provided with rest bars and the body with runners for engagement with said rest bars, fulcrum pins or studs on the body adjacent extremities of the runners, open topped bearings on the end walls of the frame for the reception of said fulcrum pins or studs, and means for effecting the tilting movement of the body.

1,418,938. PACKAGE TIE. JOHN L. KOLBE, Crookston, Minn. Filed Jan. 26, 1921. Serial No. 440,025. 4 Claims. (Cl. 24—18.)



3. A package tie of substantially triangular form consisting of a single blank or length of wire having its extremities inwardly directed at one angle to form a cord attaching means and having inwardly directed looped portions at the other angles constituting respectively a looping finger and a retainer with the sides thereof respectively in outwardly convergent relation with the adjacent portions of the side members of the device and offset slightly from the plane thereof.

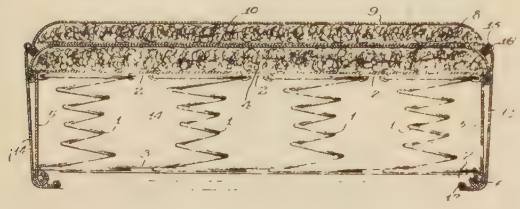
1,418,939. JAR-CAP FORMER. LOUIS F. KULP, Gwynedd, Pa. Filed Sept. 5, 1919. Serial No. 321,781. 2 Claims. (Cl. 81—15.)



1. A device for the purpose indicated consisting of complementary forming members of which one constitutes a base provided with an annular mandrel having an exterior contour corresponding substantially with the inter-

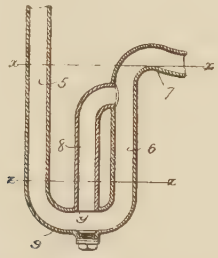
nal contour of a jar cap and including a shoulder to support the flange of such cap, the other of said members being provided with a spider having an up-standing stem, a lever fulcrumed upon the base member and pivotally connected to said stem and extended to provide a handle by means of which the said other member may be forced into contact with the shoulder of the base member in the manner and for the purpose specified.

1,418,940. SEAT COVER. JOHN F. KUTSCHMAR, Detroit, Mich., assignor to Federal Automobile and Body Painting and Trimming Co., Detroit, Mich., a Corporation of Michigan. Filed Oct. 14, 1921. Serial No. 507,601. 2 Claims. (Cl. 155—184.)



1. A seat cover comprising a padded top, a fabric strip secured at one of its edges to the edges of the top, the free ends of the strip terminating between the ends of one of the sides of the cover, the edge of the strip opposite to that which is attached to the top being formed into an open-ended pocket, a cord lying within said pocket and having its free ends knotted and extending beyond the open ends of the pocket whereby the cords may be secured to a spring seat by the wedging engagement of the knotted ends with tapering recesses in said seat.

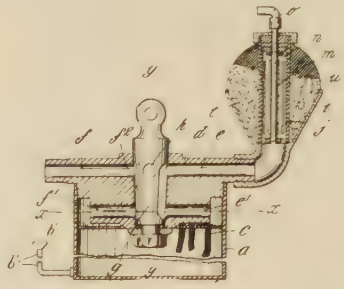
1,418,941. SANITARY TRAP. NORRIS C. LEONARD, Baltimore, Md. Filed June 22, 1921. Serial No. 479,613. 4 Claims. (Cl. 182—12.)



1. A sanitary trap composed of an inlet pipe, and two communicating outlet pipes, one of said outlet pipes adapted for connection at its outlet end with a waste pipe and the other outlet pipe having connection at its upper end with said first outlet pipe at a point below the discharge end of the latter.

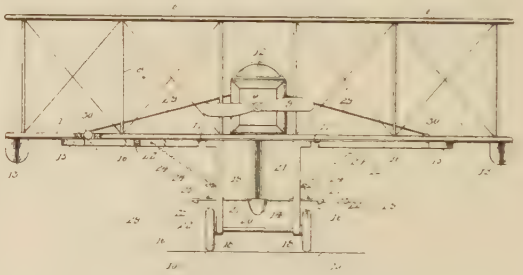
1,418,942. AIR MOISTENER. ROLLS PERCIVAL LINK, Winchmore Hill, England. Filed Nov. 26, 1919. Serial No. 340,845. 3 Claims. (Cl. 261—99.)

1. In apparatus for humidifying air supplied to the cylinder of an internal combustion engine to form part of the charge, the combination of a vessel, a perforated plate dividing the said vessel into upper and lower spaces, wicks in the said lower space having their ends protruding through the perforations in the said plate into the upper space, a cap closing the said upper space, conduits in the said cap forming part of the air duct leading to the engine cylinder and comprising inlet and outlet branches respectively opening into and leading out from the said upper space at locations remote one from the other, and a multiple ported valve interposed in the said conduits having one of its ports controlling the inlet end of the said inlet branch and another port correspondingly controlling the outlet end of the said outlet branch.



3. In apparatus for humidifying air supplied to the cylinder of an internal combustion engine to form part of the charge, the combination of a vessel, a perforated plate dividing the said vessel into upper and lower spaces, wicks in the said lower space having their ends protruding through the perforations in the said plate into the upper space, a cap closing said upper space, an inlet conduit and an outlet conduit in the said cap, a multiple ported valve controlling communication between the inlet conduit and the outlet conduit through said upper space and simultaneously controlling communication between said conduits directly, outside of the said upper space, and an independently operated valve regulating the admission of air to the said conduits.

1,418,943. AEROPLANE. CONRAD LOSKI, Miller Run, Pa. Filed June 20, 1921. Serial No. 479,048. 3 Claims. (Cl. 244—2.)



1. In combination with an aeroplane having ground-engaging wheels and a fuselage, a pair of runners movable to an operative position below the ground-engaging wheels and to an inoperative position above said wheels, of means controllable from a point within the fuselage for causing movement of said runners from operative to inoperative position or vice versa at will, means to automatically retain the runners in an operative position, means operable from within the fuselage for releasing said retaining means, said runners being pivotally mounted for lateral swinging movement in a vertical direction to move from one position to the other, and means to normally automatically swing said runners to their vertical operative positions, said retaining means comprising resilient catches.

1,418,944. FISHING-LINE FLOAT. ALFRED P. LOWER, Bradford, Ohio. Filed June 1, 1921. Serial No. 474,181. 3 Claims. (Cl. 43—49.)

1. A fishing line float comprising a stem having a slot therein for the reception of the line, a washer of yield-

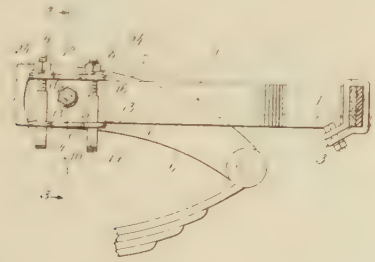
able material on the stem and limited in its outward movement thereon, and a float slidable on the stem and

adapted to close the slot therein and clamp the line between it and the said washer.

1,418,945. PROCESS OF MANUFACTURING A COLORING MATTER FOR BEER. HEINRICH LÜERS, Munich, Germany. Filed Feb. 18, 1921. Serial No. 446,200. 6 Claims. (Cl. 195—32.)

1. The process of manufacturing a coloring-matter for beer and the like, consisting in mixing a sugar-solution with an aqueous extract of malt-germs, thickening the mixture to the consistency of syrup by evaporation, and keeping the concentrate upon a temperature of approximately 100° C. for an appropriate time.

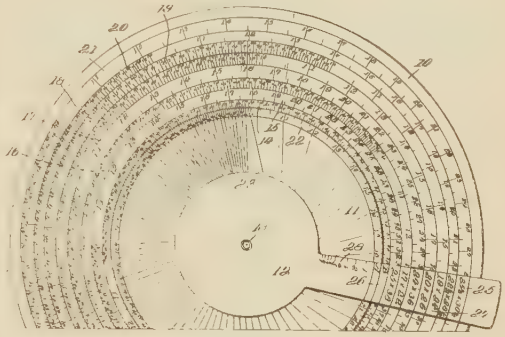
1,418,946. AUTOMOBILE BUFFER ATTACHER. GEORGE ALBERT LYON, Philadelphia, Pa. Filed Oct. 20, 1921. Serial No. 509,054. 22 Claims. (Cl. 293—55.)



5. In automobile buffers, an automobile having flanged frame members provided with frame apertures and a splash pan secured to said frame members, a buffer having supporting members adapted to co-operate with the frame members on both sides of said automobile and formed with attaching apertures, contact brackets formed with attaching apertures and gripping flanges adapted to extend around said buffer supporting members, angle bolt attachers having threaded aligning stems extending through said frame apertures and attaching apertures, to hold said contact brackets and buffer supporting members against said frame members and adjusting bolts engaging said brackets on each side of said attachers and to hold said buffer supporting members with respect to the automobile frame members.

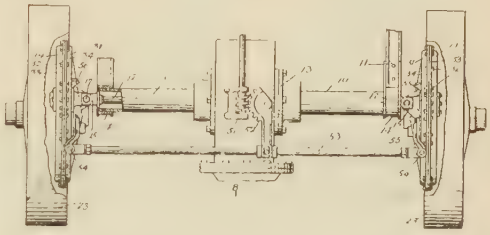
1,418,947. CALCULATOR. JOHN E. LYSEN, Chicago, Ill., assignor to J. W. Butler Paper Company, a Corporation of Illinois. Filed Apr. 30, 1921. Serial No. 465,812. 4 Claims. (Cl. 235—84.)

1. A calculator of the character described comprising a base disk provided with a key scale and a plurality of logarithmic scales all concentrically arranged with respect to each other, a second disk rotatably mounted with respect to the base disk and provided with a key scale correlated with the scales on the base disk and arranged



in concentric relation therewith, and an indicator arm movable in a circular path over both of said disks and having indicia registering and correlated with all of the scales of both disks.

1,418,948. MOUNTING FOR TRACTION DRIVE WHEELS. ELMER B. MCCARTNEY, Minneapolis, Minn., assignor to Toro Motor Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Apr. 26, 1920. Serial No. 376,635. 2 Claims. (Cl. 180—43.)

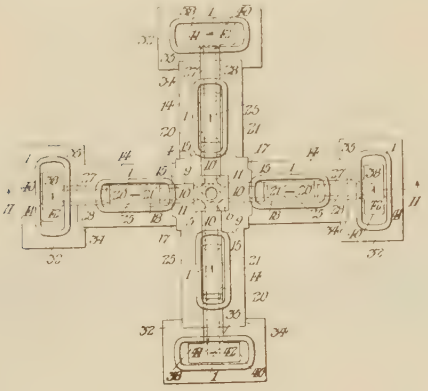


1. A traction wheel mounting including a gear casing, a supporting axle therefor, a stub axle carried by said casing, a traction wheel rotatably mounted upon said stub axle, with a running joint connection provided between the gear casing and the hub of said wheel, a driven gear mounted in said casing, and secured to said traction wheel, a driving pinion mounted in said casing and meshing with said driven gear, a steering knuckle lug formed integrally with said casing and offset laterally from the stub axle, knuckle-forks carried by the supporting axle and embracing said lug, a vertical pin connecting said forks and said lug, and universal driving connections with said pinion at an angle to the steering knuckle members.

1,418,949. CASTING APPARATUS. SAMUEL MCFARLAND, Coatesville, Pa. Filed Jan. 13, 1920. Serial No. 351,239. 11 Claims. (Cl. 22—142.)

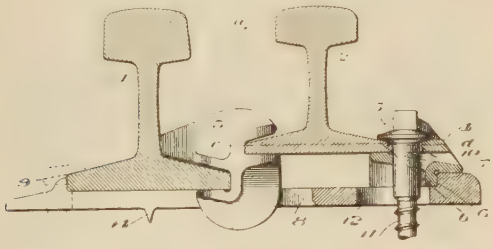
1. In casting apparatus: a bottom sprue plate for a plurality of ingot molds arranged in a single pouring group, including separable sections respectively local to the individual molds, a central section, independent of but cooperatively connected with said other sections and constructed and arranged to receive molten metal and direct it to said other sections; said sections extending in a common plane and having complementary channels for the passage of molten metal to said molds; and elements of refractory material in said channels,

bridging the joints between said sections, and forming passageways for the molten metal; certain of said refractory elements having nozzle openings arranged to



register with the respective molds mounted upon the respective sections; and a single runner conduit common to all of said molds.

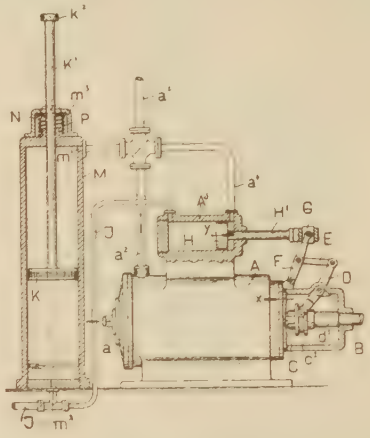
1,418,950. CURVE GUARDRAIL FIXTURE FOR RAILWAY TRACKS. THOMAS MANEY, Louisville, Ky. Filed Dec. 19, 1919. Serial No. 345,928. 3 Claims. (Cl. 238—20.)



1. The combination with a slotted shouldered tie-plate, of a casting-block having a rib on its lower side in position to engage one of the shoulders, and provided with a bolt-hole through which and the elongated slot in the tie-plate, a screw-spike embracing the guard-rail base is adapted to be received, said casting-block having means for embracing the guard-rail base above as well as from beneath.

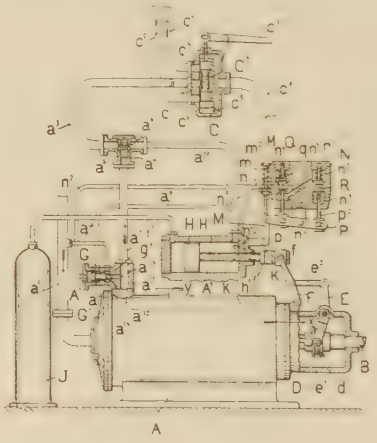
1,418,951. CONTROLLING APPARATUS FOR PISTON PUMPS. FRIEDRICH MARTIN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Oct. 4, 1920. Serial No. 414,690. 4 Claims. (Cl. 103—87.)

1. A regulation device for piston pumps with shaft drive and variable stroke-length, comprising an accumulator cylinder connected to the pressure conduit of the pump, a piston in said cylinder and means for controlling the fluid pressure therein whereby the fluid pressure may be increased when the accumulator piston has been displaced by the fluid pressure to the end of its stroke, a regulating cylinder likewise connected to the pressure conduit of the pump, a piston in said regulating cylinder controlling the stroke-length of the pump piston during the operation of the pump, said controlling piston being adapted to be displaced by the fluid pressure in the direction of a diminished stroke-length, and means whereby the controlling piston is automatically operated in opposite direction, said controlling piston being so proportioned that it is held in a position corresponding to the



greatest stroke-length, before the fluid pressure in said accumulator cylinder has been increased by said fluid pressure controlling means.

1,418,952. CONTROLLING APPARATUS FOR PISTON PUMPS. FRIEDRICH MARTIN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Oct. 4, 1920. Serial No. 414,691. 6 Claims. (Cl. 103—87.)

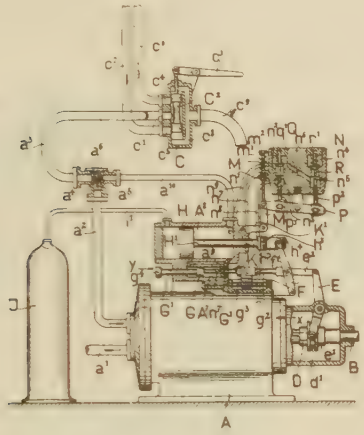


3. An arrangement of the class described for use in combination with a piston pump having an adjustable stroke-length comprising a pressure controlled regulating device, a source of pressure permanently connected to said regulating device, means connecting said regulating device to the pressure chamber of the pump, means operatively connecting said regulating device to the piston of the pump for regulating the same, a by-pass system, an auxiliary motor controlling said by-pass system, a control device for said auxiliary motor and means operatively connecting said regulating device to said control device whereby when said regulating device has adjusted the pump piston to a diminished stroke-length, said control device will be operated to cause said auxiliary motor to function.

1,418,953. CONTROLLING APPARATUS FOR PISTON PUMPS. FRIEDRICH MARTIN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Oct. 23, 1920. Serial No. 419,043. 7 Claims. (Cl. 103—87.)

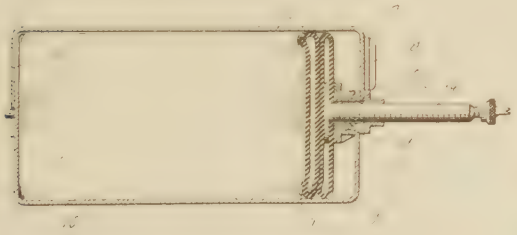
1. A controlling apparatus for piston pumps with shaft drive and a variable stroke-length comprising an

adjusting member for varying the stroke-length of the pump, a controlling piston, means connecting said controlling piston to said adjusting member, means enabling said controlling piston to be actuated by the fluid pressure generated by the pump in the sense of shortening the stroke-length of the pump, a source of power acting on



the controlling piston in opposition to the fluid pressure of the pump, means for adjusting the pump so that it will be without pressure, an auxiliary motor for actuating said adjusting means, and means operable by the controlling piston when having reached a position corresponding to a comparatively small stroke-length for causing said auxiliary motor to function.

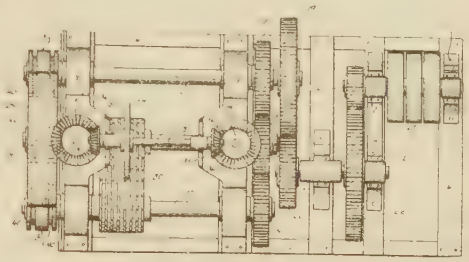
1,418,954. RECEPTACLE. FREDERICK W. MARTIN, Wichita, Kans. Filed Jan. 24, 1921. Serial No. 439,509. 4 Claims. (Cl. 206—1.)



1. A container for inner tubes comprising a cylindrical metal receptacle, a cover for closing said receptacle, the wall of said cover being formed with a slot, said receptacle being adapted to receive the inner tube in a deflated condition, the wall of said receptacle being apertured to permit the valve stem of the inner tube to project therethrough, whereby the tube may be inflated causing the same to expand against the walls of the receptacle, said valve stem being caused to enter said slot to secure said cover in place.

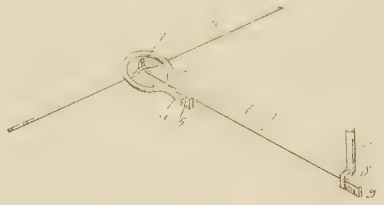
1,418,955. METAL-BENDING MACHINE. WILLIAM S. MASON, Norristown, Pa., assignor of one-third to Charles B. Harding, Lansdowne, Pa., and one-third to Henry Fredericks, Philadelphia, Pa. Filed Dec. 18, 1920. Serial No. 431,652. 3 Claims. (Cl. 153—56.)

1. In metal bending machines of the character set forth, the combination of a series of three work guiding rollers, a pressing roller operatively associated therewith and of substantially greater diameter than said work guiding rollers, the said work guiding rollers being so mounted that portions of their peripheries always are disposed in a common tangential arc that is also concen-



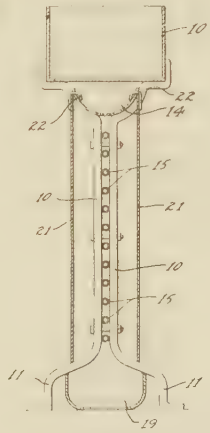
tric with the periphery of said pressing roller, and means for actuating all of said work guiding rollers in the same direction of rotation, substantially as described.

1,418,956. WIRE TIGHTENER AND TWISTER. WILLIAM H. MEAD, Autaugaville, Ala. Filed Nov. 12, 1921. Serial No. 514,790. 4 Claims. (Cl. 140—102.5.)



1. A wire twisting device including a rod having a crank at one end and a loop at its other end, a lever pivotally connected to said rod and provided at one end with a hook which cooperates with said loop to engage a wire, and means for locking said lever in a fixed position relatively to said shaft.

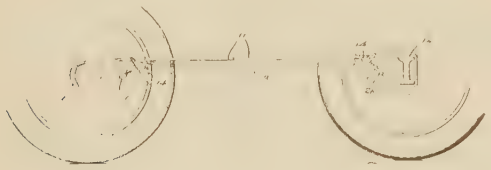
1,418,957. MILK COOLER. LEON G. MERKLE, Linden, N. Y. Filed Nov. 20, 1920. Serial No. 425,495. 1 Claim. (Cl. 257—184.)



A milk cooling device comprising a pair of uprights formed as spaced legs secured together, a vertically disposed coil including a plurality of horizontally superposed convolutions extending between and slightly beyond said

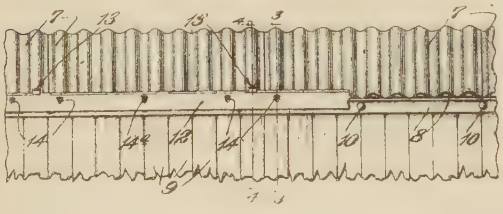
uprights and held in clamping engagement between the legs thereof, said coil being adapted for the passage of a refrigerant, the upper ends of the legs forming the uprights being curved upwardly and outwardly and terminating in laterally extending portions having upturned ends, a trough of curved shape mounted upon the curved upper portions of the uprights and having a perforated bottom for discharging milk onto the coil and a tank seating upon the lateral extensions at the upper ends of the uprights and within the confines of said upturned ends and having an outlet spigot discharging into said trough.

1,418,958. TOWLINE AND FASTENER. GLENN W. MOORE, Upper Alton, Ill. Filed Oct. 11, 1921. Serial No. 506,996. 1 Claim. (Cl. 213—67.)



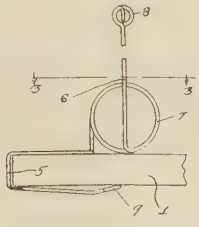
A fastener for the purposes described comprising a body having a terminal eye therein, a shank extending a distance, a recurved part at the outer part of the shank, and a transverse saddle portion formed on the extremity of the recurved part in a plane at right angles to the line of the shank, and concentric with the shank.

1,418,959. CAR ROOF. WALTER P. MURPHY, New York, N. Y., assignor to P. H. Murphy Company, Parnassus, Pa., a Corporation of Pennsylvania. Filed Apr. 26, 1920. Serial No. 376,612. 10 Claims. (Cl. 108—5.8.)



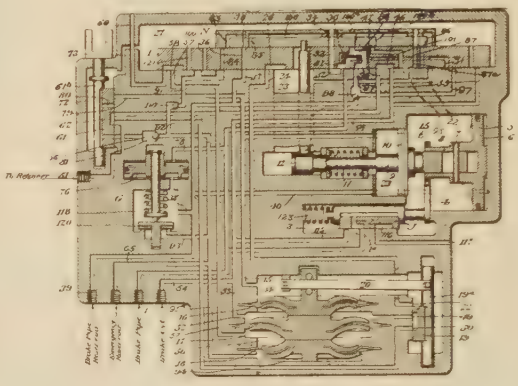
1. A car roof comprising roof sheets arranged crosswise of the car and eaves caps secured to the car and covering the eaves ends of said roof sheets, said eaves caps having portions which bear against the car substructure and space the same therefrom, and having integral tongue portions which bear against the roof sheets and hold the same down on the car substructure.

1,418,960. CORD SUPPORT. CLAUD M. MYERS, Chicago, Ill. Filed Apr. 21, 1921. Serial No. 463,295. 3 Claims. (Cl. 68—9.)



1. A support of the class described, comprising a clamping base, a standard, means on the upper end of the standard adapted to resiliently engage a flexible conductor, and means integral with both base and standard for resiliently holding the standard upright.

1,418,961. AIR-BRAKE APPARATUS. SPENCER GEARY NEAL, New York, N. Y., assignor to Automatic Straight Air Brake Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 19, 1920. Serial No. 375,063. 42 Claims. (Cl. 303—27.)

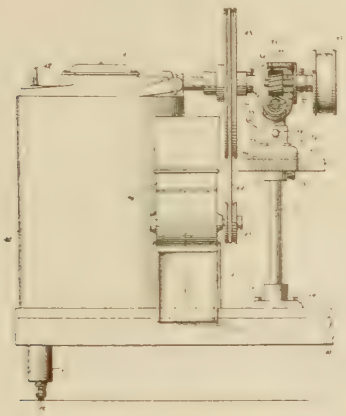


1. A triple valve for air brake apparatus formed with a main brake pipe chamber having aligned cylindrical extensions of different diameters, an actuating piston in the inner smaller extension, a larger emergency piston in the outer larger extension, a supplemental brake pipe chamber on the opposite side of the actuating piston from the main brake pipe chamber, a quick-action chamber on the opposite side of the emergency piston from the main brake pipe chamber, a main slide valve, a graduating valve, means operatively connecting said valves to the actuating piston, an emergency valve chamber, an emergency valve in said chamber, means affording a lost-motion connection between the emergency piston and the emergency valve, and a lost-motion connection between the emergency piston and the actuating piston, the main and graduating valves being formed with ports and passages to control the admission and release of the brake cylinder pressure and the emergency valve being formed with ports to locally vent the brake pipe for emergency applications of the brakes.

5. A triple valve for air brake apparatus comprising a main service slide valve, an actuating piston connected to said slide valve and having a slight independent movement, a graduating valve connected positively to the actuating piston and moving therewith, the main and graduating valves having a brake pipe reservoir charging position and ports and passages connecting a brake pipe port with the main slide valve chamber and said chamber to the brake pipe reservoir port and also an emergency reservoir charging position and ports and passages to connect the brake pipe to the emergency reservoir charging port through the graduating valve, a main brake pipe chamber formed on one side of the actuating piston and a supplemental brake pipe chamber formed on the opposite side of said piston, an emergency piston in the main brake pipe chamber and having a quick-action chamber formed at one side thereof and connected to a brake pipe reservoir, means connecting the actuating piston with the emergency piston whereby the pressure in the main brake pipe chamber will hold the graduating valve in position to close the emergency reservoir charging ports until there is an eqaulization of pressures in the main brake pipe chamber and in the quick-action chamber, and a spring connected to the actuating piston and arranged to be compressed when the valves are moved to full-release position and serving to move the graduating valve to open the emergency reservoir charging port when there is an equalization of pressures in the main

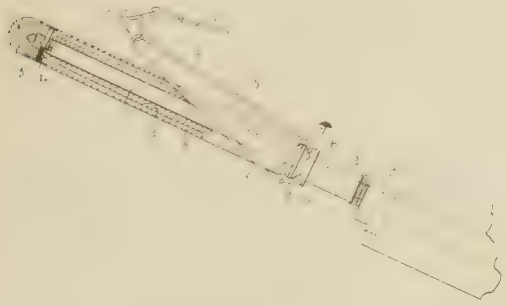
brake pipe chamber and in the quick-action chamber, said spring being also arranged to be compressed when the valves are moved to application position and serving to move the graduating valve to lap position on an equalization of pressures in the main brake pipe chamber and in the supplemental brake pipe chamber.

1,418,962. POWER UNIT FOR DRIVING ICE-CREAM FREEZERS AND OTHER APPLIANCES. CRANDALL U. NORCROSS, Winchendon, Mass., assignor to Alaska Freezer Company, Winchendon, Mass., a Trust Association. Filed Jan. 17, 1921. Serial No. 437,903. 4 Claims. (Cl. 74—7.)



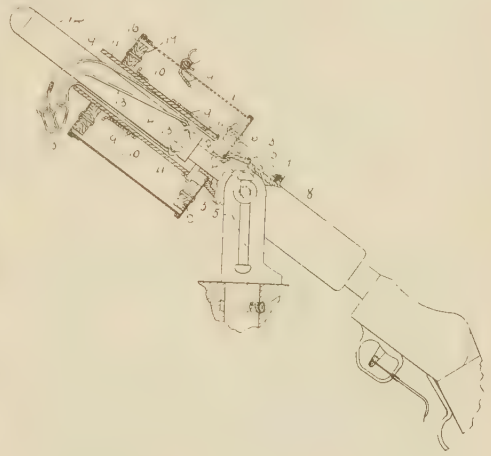
1. A power unit of the class described comprising a supporting device having posts secured thereto, a bed plate slidably mounted on the posts, means for maintaining said bed plate on said posts in adjusted position, a motor and a bracket secured to the bed plate, a gear casing adjustably mounted on the bracket, shafts arranged substantially at right angles and journalled in said casing, gearing connecting said shafts within the casing, one of said shafts being connected to said motor and the other adapted to be directly connected to the driving mechanism of an ice cream freezer, tool or the like.

1,418,963. PROJECTILE FOR LINE-THROWING GUNS. GEORGE NORMAN, Birmingham, England, assignor to B. S. A. Guns Limited, Birmingham, England. Filed Mar. 3, 1922. Serial No. 540,735. 4 Claims. (Cl. 102—34.)



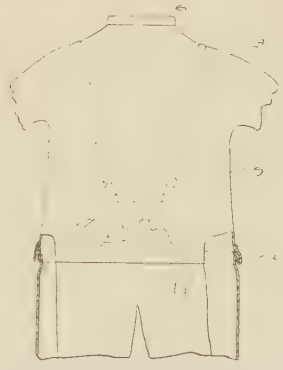
1. A projectile for use in line-throwing guns, comprising a rod adapted to slidably enter the barrel of a gun, a tubular sleeve adapted to envelop the barrel of the gun, and a nose piece connecting the rod and sleeve at their outer ends and adapted to rest upon the mouth of the barrel of the gun.

1,418,964. LINE-THROWING APPARATUS. GEORGE NORMAN, Birmingham, England, assignor to B. S. A. Guns Limited, Birmingham, England. Filed Mar. 3, 1922. Serial No. 540,736. 7 Claims. (Cl. 89—1.)



6. An apparatus of the class described, comprising a cylinder adapted to be secured concentrically on the barrel of a line-throwing gun, a removable tube in said cylinder in concentric relation with said cylinder and adapted to surround the barrel of a gun in spaced relation thereto, and a cable wound on said tube having one end connected to said cylinder and its other end extending through said tube for connection with a projectile.

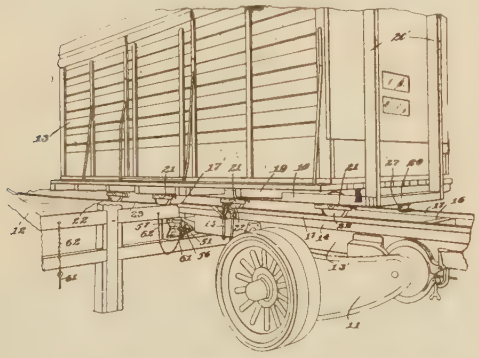
1,418,965. GARMENT. JOHN J. OLSON, Belview, Minn. Filed Apr. 7, 1919. Serial No. 288,018. 1 Claim. (Cl. 2—144.)



A garment including a body portion, a nether portion permanently secured to the front lower edge of the body portion between points at opposite sides of the body at the waist line and unsecured at the rear lower edge thereof, a closure flap formed at the upper rear portion of the nether portion and arranged to meet the rear lower edge of the body portion in overlapping relation, a plurality of buttons secured on and spaced intermediate the opposite ends of the upper edge of said closure flap, and adapted for engagement in buttonholes complemental thereto and formed in the lower edge of the body portion, a tab secured medially of the upper edge of said closure flap and having buttons on the free edge thereof, and a pair of straps within the body portion and having their upper ends only secured to the top of the shoulder portions thereof, said straps converging downwardly and having their lower end portions secured together in spaced relation one with respect to the other centrally of the rear wall of the body the free ends of the straps

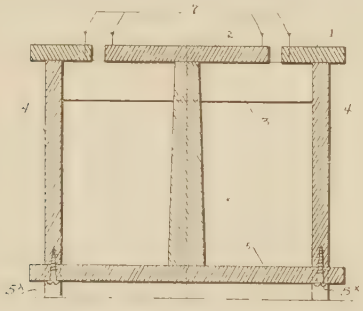
having buttonholes adapted for engagement with the buttons on said tab, whereby a large portion of the strain, due to the bending of the body of a person in movements to sitting positions, is relieved from the button and buttonhole fastenings of the closure flap and is transmitted by said straps to the shoulder portions of the body portion of the garment.

1,418,966. REMOVABLE-BODY CONSTRUCTION. DONALD W. PERIN, Brookline, Mass., assignor, by mesne assignments, to Perin "Roloff" Company, Somerville, Mass., a Corporation of Massachusetts. Filed Sept. 21, 1920. Serial No. 411,711. 19 Claims. (Cl. 214—38.)



1. In combination with a vehicle chassis having a body receiving track thereupon, a body having members adapted to interfit with the track whereby the body may be moved longitudinally upon the chassis, engaging members located upon each side of the body and having laterally extending lugs thereon, engaging members upon the chassis adapted to engage the first mentioned members, and having portions extending above and behind the lugs thereof.

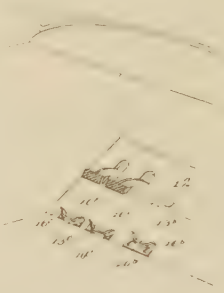
1,418,967. KNITTING DEVICE. ROBERT J. PETERMANN, New York, N. Y. Filed Nov. 29, 1920. Serial No. 427,169. 3 Claims. (Cl. 66—25.)



3. A knitting device comprising a platform with an opening therein, a disk arranged in said opening and spaced from the wall thereof, circular series of spaced pegs on the platform and disk and spaced from the opening between the two, and a detachable coupling between the disk and the platform entirely below the upper surfaces thereof.

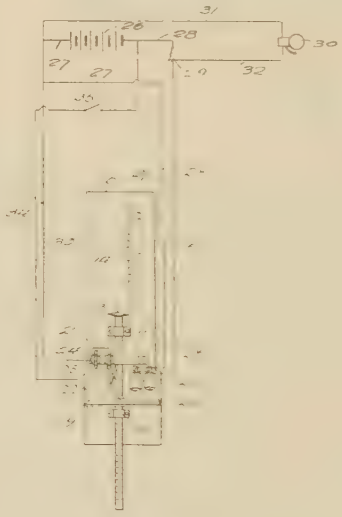
1,418,968. AUTO HEEL REST. FRANK PHILIPPS, Hammond, Ind. Filed Sept. 16, 1921. Serial No. 501,025. 2 Claims. (Cl. 74—81.)

1. A heel rest blank comprising a sheet of metal cut to provide a base portion and a flange portion, said flange portion being adapted to be bent over to one side of the base portion to provide a heel support for a shoe of one length and adapted to be bent over to the other side of said base portion to form a rest for a shoe of a different length, said blank having perforations in the base portion through which attaching means may pass and the



base portion being adapted to be secured to the floor board of an automobile with said flange portion rising therefrom to engage the heel of a shoe.

1,418,969. CALL ANNUNCIATOR. HERBERT F. PLUMB, Drumheller, Alberta, Canada. Filed Oct. 15, 1918. Serial No. 258,177. 1 Claim. (Cl. 177—328.)

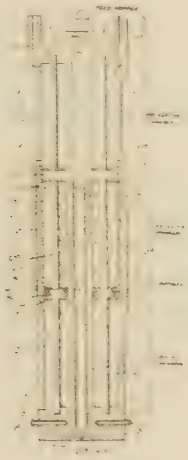


A call annunciator comprising a bar, an insulated base on which said bar is slidably supported for vertical movement, said bar having teeth and provided with a pointer, spaced indications on said base with which said pointer cooperates, a detent engageable with the teeth of the bar to raise the same one step and normally disengaged therefrom, an electro-magnet for actuating the detent, a spring catch having one end attached to the base and its opposite free end engaging the teeth of said bar, an armature mounted on said spring near the free end thereof, and a second magnet attached to said base cooperating with said armature to withdraw the free end of the spring from engagement with the teeth of the bar to permit said bar to fall by gravity.

1,418,970. OIL SEPARATOR. J CORBLEY POOL, Santa Barbara, Calif. Filed Feb. 18, 1920. Serial No. 359,506. 5 Claims. (Cl. 196—19.)

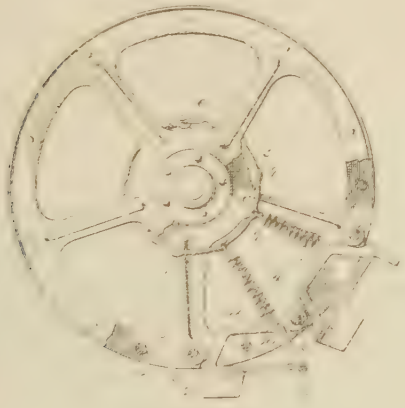
3. An apparatus for separating oil from rock, comprising a housing formed to provide a plurality of compartments arranged in sets one parallel to the other, a tube disposed vertically of each of said compartments, means dividing each tube into receiving, distilling and cooling

sections, means for heating the distilling sections of each tube, means for conveying heat radiated from the distilling and cooling sections of each tube to the receiving sections thereof, means for feeding rock to each of said tubes,



means arranged between oppositely disposed tubes for drawing off the volatile oils or vapors from the distilling sections of the same, and means for discharging the residue from the bottom of the cooling sections of said tubes.

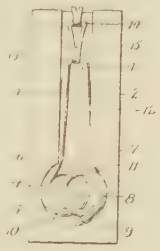
1,418,971. TRACTION WHEEL. CHARLES A. PSILANDER and WILLIAM M. HENDERSON, Easton, Pa., assignors to William Wharton Jr. & Company, Incorporated, Easton, Pa., a Corporation of Pennsylvania. Filed Mar. 12, 1920. Serial No. 365,209. 1 Claim. (Cl. 305—13.)



A tractor wheel having a hub, a rim, double spokes, pads mounted for free movement relative to the rim, a floating element retained by the hub and arranged between the spokes, and a resilient connector between said element and each pad.

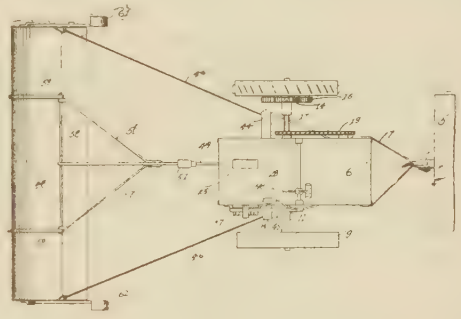
1,418,972. COILED-WIRE SASH-CHAIN-ATTACHING DEVICE. JOHN R. REYBURN, Fairfield, Conn., assignor to American Chain Company, Incorporated, Bridgeport, Conn., a Corporation of New York. Filed Mar. 16, 1921. Serial No. 452,818. 2 Claims. (Cl. 16—202.)

1. The coiled wire attaching device for sash chain having a tightly coiled retaining end coil and having a loosely coiled inserting end coil adapted to be readily inserted in the end of the sash chain, said coils being of such large diameter as to be retained in the securing hole



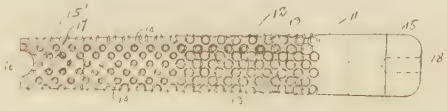
of the sash and being connected by a hanger loop projecting radially from said coils a distance several times as great as the diameter of said coils.

1,418,973. SCRAPER. CHARLES B. ROBERTS, Berkeley, Calif. Filed Mar. 1, 1921. Serial No. 448,843. 3 Claims. (Cl. 37—40.)



1. In a machine of the class described a wheeled carriage, a scraper bucket dragged by said carriage, manually controlled power actuating means on the carriage and connecting the scraper bucket for moving the same to dumping position, and returning it to scraping position, and means on the scraper bucket for jarring the load free from the bucket when the bucket is moved to dumping position.

1,418,974. RASP FILE. ABRAHAM RODOW, New York, N. Y. Filed Feb. 1, 1921. Serial No. 441,703. 3 Claims. (Cl. 29—78.)

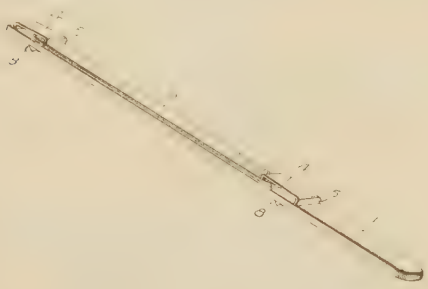


1. A hollow file of sheet metal having therein holes punched outwardly, the metal of said holes thereby being formed into cutting teeth, a plug at the end of said file, extending outwardly therefrom, and an untoothed part in said sheet metal adjacent to said plug, said untoothed part with the end of said plug being adapted to serve as a handle for said file.

1,418,975. TOOL FOR GRINDING WATCH CRYSTALS. WILLIAM MALLOW SANDEFUR, Durant, Okla. Filed Sept. 2, 1920. Serial No. 407,631. 1 Claim. (Cl. 51—187.)

A hand buffer comprising a back plate for receiving a plurality of superposed abrasive strips, said back plate provided with a pair of openings, a pair of clamping

means each consisting of a plate having a comparatively long, right-angled bent portion at one end thereof, providing a fulcrum for said plate, a relatively short right-angled bent portion at the opposite end thereof for securely holding the abrasive strips to the back plate, a

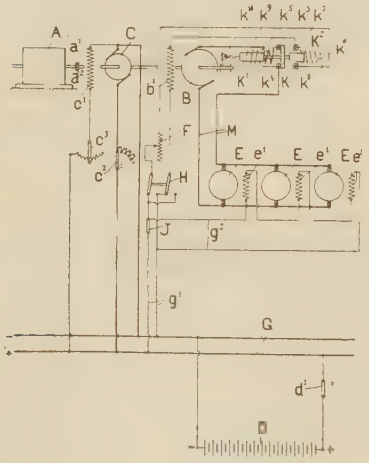


threaded extension integral with the plate and projecting through the opening in the back plate, said opening being sufficiently large to permit the positive gripping of a maximum or minimum number of abrasive strips by its coacting bent portion, and a wing nut in threaded engagement with the threaded extension.

1,418,976. MANUFACTURE OF CAOUTCHOUC AND CAOUTCHOUCLIKE PRODUCT. PHILIP SCHIDROWITZ, London, England, assignor of one-half to Catalpo Limited, London, England, a British Company. Filed July 19, 1921. Serial No. 485,926. 7 Claims. (Cl. 18—53.)

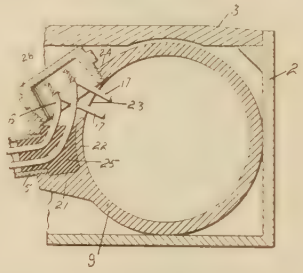
1. The process for the manufacture of a vulcanized rubber composition which comprises synthesizing an agent accelerating vulcanization upon a carrier to be incorporated with the rubber mixing.

1,418,977. ELECTRIC LOCOMOTIVE. LUDWIG SCHÖN, Essen-on-the-Ruhr, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Dec. 7, 1920. Serial No. 429,023. 7 Claims. (Cl. 290—10.)



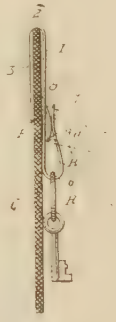
1. Electric locomotive having an internal combustion engine adapted to act as driving engine of a separately excitable direct current generator supplying the current for the traction motors, said traction motors being separately excitable and electrically connected to said generator, an electro-magnetic switch interposed between said motors and said generator and adapted to open the armature circuit of said generator in case of an overload, said switch being controlled by a plurality of magnetic windings excitable independently of each other, and means for supplying the exciting current required for the current generator and the motors comprising an exciting dynamo positively connected to the generator and a storage battery connected in parallel to the latter.

1,418,978. AUTOMATIC TRACK SWITCH. RICHARD R. SCOGGAN, Jeffersonville, Ind., assignor to Kentucky Switch & Signal Co. Inc., St. Matthews, Ky., a Corporation of Kentucky. Filed Aug. 5, 1921. Serial No. 490,014. 14 Claims. (Cl. 246—225.)



1. In an electric track switch, a magnet cylinder casting comprising a magnet chamber and a sealing chamber, said chambers being provided with a common opening and a plug hermetically sealing said opening.

1,418,979. KEY-RING HOLDER. PETER J. SEFERLIS, Ithaca, N. Y. Filed Mar. 29, 1922. Serial No. 547,756. 2 Claims. (Cl. 24—3.1.)



1. A key ring holder comprising a resilient strip of metal bent to provide a garment engaging clasp, a body portion and a guard arm, a spring finger struck out from the body portion having the terminal end thereof engaging the guard arm to form a closed loop for the key ring, said ring being removable from the holder by pressure upon the outer end of the guard arm to disengage the terminal end of the spring finger from engagement with the guard arm.

1,418,980. METHOD AND MEANS FOR VENTILATING VEHICULAR TUNNELS. JAMES M. SEYMOUR, Newark, N. J. Filed Jan. 20, 1921. Serial No. 438,598. 6 Claims. (Cl. 98—28.)

3. A method of ventilating vehicular tunnels, comprising the delivery of a large volume of air at low pressure into the tunnel entrance, impelling said air through the tunnel way in the direction of traffic movement and at a velocity in excess of the permitted speed of traffic movement, discharging said air at or near the tunnel exit, and locking said air against backward escape from the tunnel entrance while vehicles are being admitted for entrance into said tunnel.

5. The combination with a vehicular tunnel of air moving machinery, a conduit for delivering air from said air moving machinery into the entrance of said

tunnel for continuous movement through the tunnel way from its entrance to its exit end, and an air lock rearward of the discharge end of said delivery conduit and

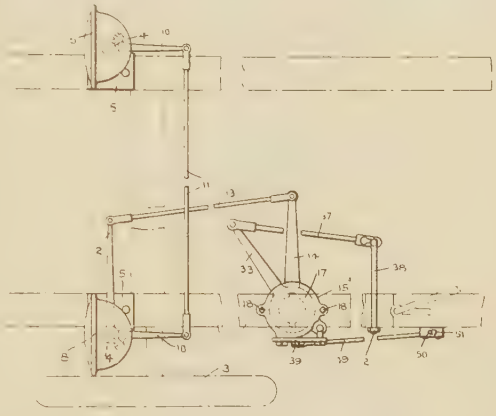
adapted to communicate with said tunnel entrance providing means for admitting vehicles to said tunnel while preventing backward and outward escape of air from said tunnel entrance.

1,418,981. FARM MACHINERY. JACOB SHARP, Fort William, Ontario, Canada, assignor of one-fourth to Andrew Skilnyk and one-fourth to Wasyl Fedak, both of Fort William, Ontario, Canada. Filed May 31, 1921. Serial No. 473,989. 1 Claim. (Cl. 55—1.)

A machine for breaking soil and extracting refuse therefrom comprising a wheeled vehicle body having a plow element mounted at the forward end thereof, an elevating conveyor arranged to receive and elevate soil plowed and discharged by said plow element, pulverizing means arranged to receive the soil elevated by said conveyor and to effectively break up said soil, a screen bottom for said body arranged to receive the soil from the pulverizing means, means for actuating said screen bottom for causing the passage of the soil therethrough onto the ground while preventing passage of the refuse therethrough, said body being constructed to provide a refuse collecting and storing receptacle rearwardly of said screen bottom, said screen bottom being actuated and disposed so as to cause the refuse to be delivered into said receptacle, the supporting wheels of said body being fixed upon a rotatable axle, operating connections between said axle and said screen bottom, operating connections between said axle and said pulverizing means, means operatively connecting the actuating mechanism for the pulverizing means to said conveyor, said pulverizing means comprising superposed rollers provided with radially projecting bits, and operating mechanism for the pulverizing means causing reverse rotation of said rollers whereby rearward feeding of the soil is had for depositing said soil upon said screen bottom.

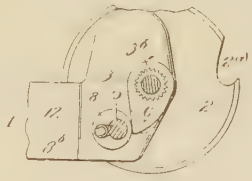
1,418,982. AUTOMATIC AUTOMOBILE HEADLAMP. JOHN D. N. SIMPSON, Spartanburg, S. C. Filed Nov. 2, 1920. Serial No. 421,263. 4 Claims. (Cl. 240—62.)

1. An operating device for a dirigible head lamp comprising a casing having grooves, a locking element slidably and rotatably mounted in the casing, arms journaled on said element and connected respectively to a head lamp and to a steering mechanism, said arms having grooves, ribs on said element, and operating means to slide said element in either direction to position the ribs in the grooves of the arms to couple the arms together and to position the ribs in the grooves of the casing and in



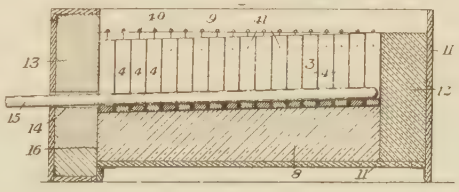
the grooves of one of the arms to lock the latter against movement and to permit the other arm to turn freely on said elements.

1,418,983. TOOL. ROBERT G. SMITH, Newark, N. J. Filed Mar. 2, 1921. Serial No. 449,218. 8 Claims. (Cl. 29—102.)



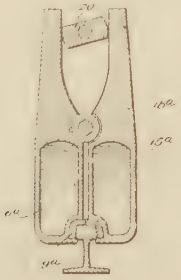
1. A tool comprising a support, a cutter provided with a shank rigid therewith and rotatively carried by the support, said shank having a projection adjustable relatively thereto, and an adjustable member on the support to cooperate with said projection to resist pressure against the cutting edge of the cutter, said shank and projection having cooperative means to retain them in set relation respecting said member.

1,418,984. ELECTRIC FURNACE. FREDERICK W. SPERR, Jr., and HAROLD J. ROSE, Pittsburgh, Pa., assignors to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 14, 1921. Serial No. 452,271. 18 Claims. (Cl. 204—64.)



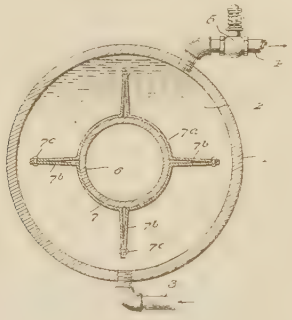
1. An electric furnace, comprising a row of heating units forming a relatively long narrow heating chamber to receive a testing tube, and means for connecting in circuit the units progressively from one end of the row to the other so as to progressively heat the sample of material being tested, substantially as described.

1,418,985. PROCESS OF AND APPARATUS FOR TEMPERING STEEL RAILS. HARRY A. STOCK, Steelton, Pa., assignor of one-half to William J. Martin, Steelton, Pa. Filed Dec. 8, 1920. Serial No. 429,182. 9 Claims. (Cl. 148—21.)



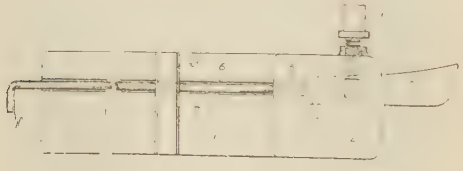
1. The process of tempering steel rails which consists in the interposition between a rail and cooling means, of means to collect heat from the rail and to give off such heat to the cooling means, quickly associating the heat collecting means and the rail, and quickly disassociating the same.

1,418,986. PROCESS OF AND APPARATUS FOR TEMPERING METALLIC TUBES, TUBULAR CONTAINERS, AND SHEETS. HARRY A. STOCK, Steelton, Pa., assignor of two-thirds to William J. Martin, Steelton, Pa. Filed Feb. 15, 1921. Serial No. 445,113. 2 Claims. (Cl. 148—21.)



1. The process of tempering metallic articles which consists in interposing a conductive medium between an article to be tempered and an elastic cooling or tempering means and utilizing the elastic cooling or tempering means for the regulation of the pressure that the said medium exerts against the article to be tempered.

1,418,987. TOOL HOLDER. KARL STUDINKA, Donora, Pa. Filed Nov. 19, 1921. Serial No. 516,411. 2 Claims. (Cl. 29—96.)

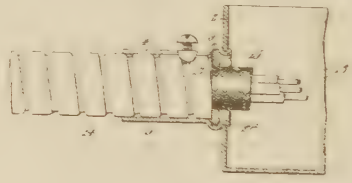


1. In a tool holder, a body provided at one end with a head having a recess for reception of the shank of a tool, said body being provided in one face with a longitudinally extending groove and the head being provided with a bore extending from the inner end of said recess and communicating with the groove, and a rod slidable in said groove.

1,418,988. DEFLECTING DAMPER FOR PIPELESS FURNACES. JAMES A. TARTE, Blaine, Wash. Filed May 3, 1921. Serial No. 466,583. 2 Claims. (Cl. 126—285.)

2. In a pipeless, hot-air furnace in combination, a hot-air outlet flue, a bifold, deflector damper hingeably mounted in said flue near its outer end and adapted to divide the passing stream of hot air and deflect the same, and further adapted to close said hot-air, outlet flue, two by-pass, hot-air, outlet pipes leaving said hot-air flue below said deflector damper, a damper fastened to each of the leaves of said bifold damper and adapted to close said by-pass, outlet pipes when the leaves of said bifold damper are fully opened and further adapted to open said by-pass pipes when said bifold damper is closed, and means to operate the leaves of said bifold damper.

1,418,989. ELECTRICAL CONNECTING DEVICE. GEORGE C. THOMAS, Jr., Elizabeth, N. J., assignor to The Thomas & Betts Co., Elizabeth, N. J., a Corporation of New Jersey. Filed Nov. 21, 1919. Serial No. 339,575. 3 Claims. (Cl. 247—25.)

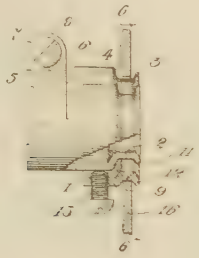


1. In connecting devices, the combination of an outlet box having a wall with an opening therethrough, a sleeve device adapted to receive an electric conduit, said device having a seat portion adapted to bind within said opening and comprising a plurality of parts adjustable to cause enlargement or restriction of said seat portion, one of said parts having an opening therein and said parts jointly having a peripheral groove within the same, adjacent said seat portion, a screw mounted in said opening and arranged to bear upon a conduit within said device, to bind the conduit in position and simultaneously force the parts of said seat portion into firm engagement with the periphery of said wall opening, and a ring retained within said groove, to form a stop for the forward end of the outer armor of the conduit.

1,418,990. CONNECTOR FOR ELECTRICAL CONDUITS, ETC. GEORGE C. THOMAS, Jr., Elizabeth, N. J., assignor to The Thomas & Betts Co., Elizabeth, N. J., a Corporation of New Jersey. Filed Nov. 10, 1920. Serial No. 423,105. 7 Claims. (Cl. 247—25.)

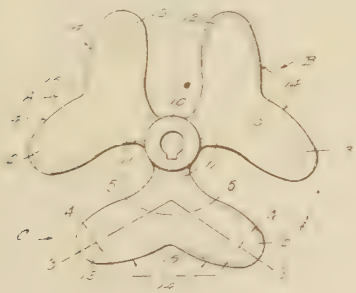
1. In an electrical connecting device, adapted to be inserted in an opening in a wall, the combination of a shell having an outwardly turned lip, an outer shell substantially cylindrical and partially surrounding said first shell and having an outwardly turned lip, means for

forcing said shells transversely apart and simultaneously forcing said lips into binding engagement with the



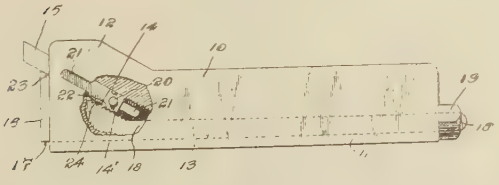
wall surrounding an opening through which the device is inserted, and means for securing the device to an electrical conduit or cable.

1,418,991. SCREW PROPELLER. GEORGE H. THOMPSON and JOHN CURRIE, Seattle, Wash. Filed Dec. 28, 1920. Serial No. 433,572. 1 Claim. (Cl. 170—159.)



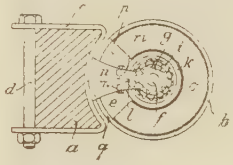
A propeller comprising a hub and a series of bifurcated blades disposed in helical relations with respect to each other about the hub, the bifurcation or fluke elements of said blades being broad and of substantially plano convex form in transverse section with the convex sides of the complementary flukes at the front and rear sides respectively, the complementary flukes of a blade being curved to have the tips and outer side portions thereof respectively directed forwardly and rearwardly or toward each other and with the outer edges of each pair of flukes coextensive and in the similitude of an elongated letter S.

1,418,992. TOOL HOLDER FOR LATHES. PAUL V. TOWNSEND, Anderson, Ind. Filed Aug. 17, 1921. Serial No. 493,009. 2 Claims. (Cl. 29—96.)



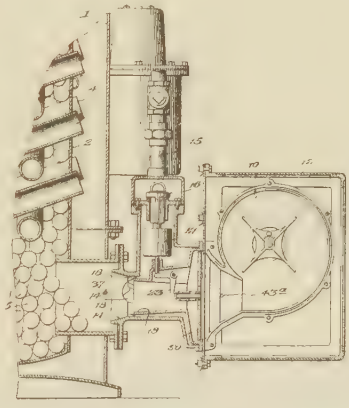
1. A tool holder comprising a body having a longitudinal passage therethrough enlarged at one end to form an inclined tool supporting face, a clamping device reciprocable therein and having a face opposed to that first mentioned, means to draw the clamping device inwardly within the holder for clamping of the tool between said faces, a series of teeth being formed upon said clamp opposed to said first named face, and a toothed block slidable in the holder for clamping therein at the butt end of the tool as described.

1,418,993. BALL BEARING FOR THE RUDDER SURFACES OF AIRCRAFT. HERMANN VON FREMERY, Schloss Spindlhof, near Regenstauf, Germany. Filed July 20, 1920. Serial No. 397,796. 5 Claims. (Cl. 64—14.)



1. In an air craft, the main support for the rudder surface having a tube provided with a ball bearing and with an opening, supporting means connecting with the ball bearing and extending through said opening, and adapted to be secured to an external support.

1,418,994. THERMOSTATIC PILOT-LIGHT CONTROL. NATHANIEL B. WALES, Boston, Mass., assignor to The Wales Company, Kalamazoo, Mich., a Corporation of Michigan. Filed Oct. 28, 1921. Serial No. 511,208. 4 Claims. (Cl. 158—115.)

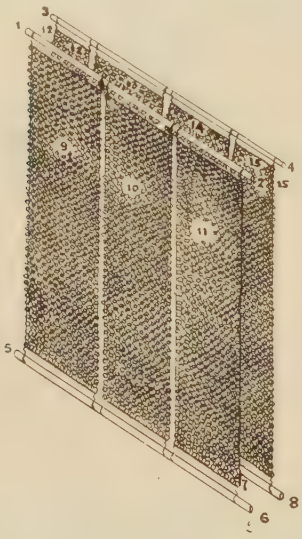


1. In a heating system wherein the heat is supplied by a main gas flame burner, a blower supplying air under pressure to said burner, a pilot burner therefor, a housing for said pilot burner which is subjected to back pressure from the air pressure supplied to the main burner, and means for introducing a jet of air in the rear of the pilot burner to counteract said back pressure.

1,418,995. PROTECTIVE LIGHT ARMOR. ANNE B. WALLACE, Tyrone, Pa. Filed Aug. 11, 1921. Serial No. 491,619. 1 Claim. (Cl. 89—36.)

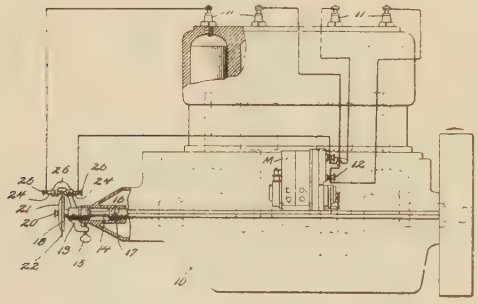
A protective light armor comprising spaced series of

adjacent strips of loosely hanging flexible mail composed of tough resistant metal, the meeting edges of the strips



of one series being arranged in staggered relation to the meeting edges of the strips of an adjacent series.

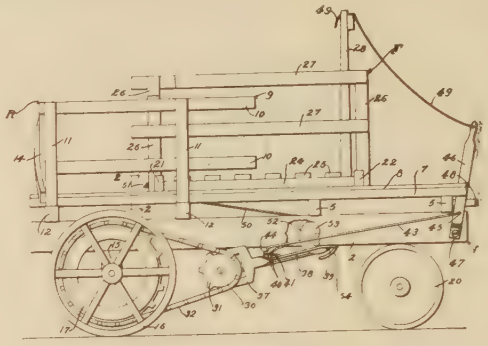
1,418,996. TIMING DEVICE FOR HYDROCARBON ENGINES. GEORGE WARRINGTON and CHESTER H. WARRINGTON, Washington, D. C.; said George Warrington assignor to said Chester H. Warrington. Filed Oct. 11, 1920. Serial No. 415,962. 11 Claims. (Cl. 234—21.)



1. Means for timing the ignition in a hydrocarbon engine comprising a record disk, a holder for the disk adapted to be driven from the crank shaft, and means incorporated in an ignition circuit for making a record on the disk.

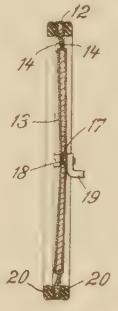
1,418,997. HAY LOADER. ADOLPH WENDEL, Spencer, Wis. Filed Aug. 3, 1920. Serial No. 400,909. 2 Claims. (Cl. 214—81.5.)

1. In a device of the class described, a vehicle frame; a wheel on the frame, and rotated by contact with the ground; a rear rack section fixed to the frame; a front rack section slidable on the frame; an operative connection between the ground wheel and the front rack section for advancing the front rack section when the ground wheel is rotated; a clutch interposed in said operative connection; and mechanism for actuating the clutch, said mechanism comprising a lever directly under the control of an operator and located in the path of the front rack section, whereby when the front rack section has been advanced to a predetermined point and into direct engage-



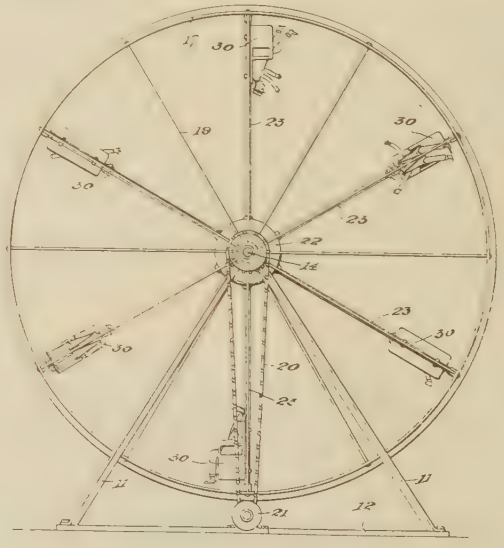
ment with said lever, a forward movement of the front rack section will be stopped automatically.

1,418,998. DIAPHRAGM FOR SOUND-PRODUCING INSTRUMENTS SAMUEL B. WILLIAMSON, Westport, Conn. Filed Oct. 20, 1920. Serial No. 418,230. 8 Claims. (Cl. 181—32.)



1. A circular sound producing diaphragm formed throughout of fibrous material with a compressed concentric zone between the center and periphery.

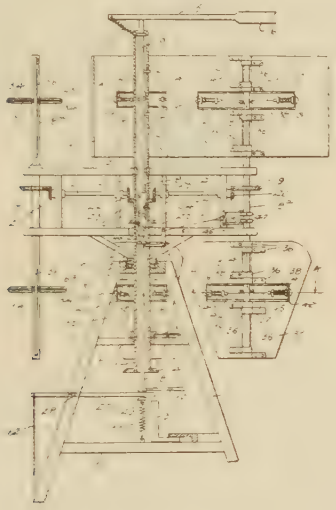
1,418,999. AMUSEMENT DEVICE. CHARLES W. WILSON, Lawton, Okla. Filed Oct. 23, 1919. Serial No. 332,583. 5 Claims. (Cl. 46—27.)



1. An amusement device, comprising a wheel, a supporting structure including a horizontal axis for vertical rota-

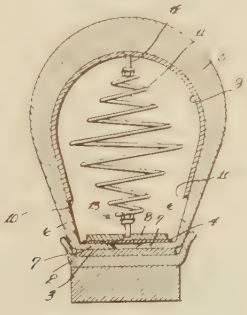
tion of said wheel, seats radially mounted on said wheel for rotation with respect to said wheel, and means for vertically rotating said wheel, and radially rotating said seats.

1,419,000. WINDMILL. WALTER A. WILSON, Elkhart, Kans. Filed Mar. 16, 1921. Serial No. 452,883. 6 Claims. (Cl. 170—21.)



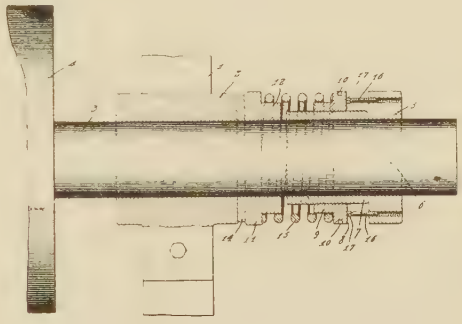
1. A windmill comprising a tower, a platform rotatable on said tower, a plurality of vane carrying shafts mounted for rotation on said platform, vanes mounted on the opposite ends of said vane carrying shafts, means for rotating said shafts, and means for varying the relative angles of the vanes and permitting collapsing of the vanes on one side of the tower.

1,419,001. RESILIENT TIRE. VINCENT O. WOODRUFF, Bridgeton, N. J. Filed Nov. 6, 1920. Serial No. 422,128. 2 Claims. (Cl. 152—8.)



2. A vehicle tire comprising an outer casing, the marginal edges of the said casing being turned inwardly to provide opposite flanges, spaced apart annular bands mounted on a rim and having the said flanges disposed between the same, a pressure band mounted upon the outer one of the said annular bands, a shell arranged within the said casing, and springs connected to the shell and to the said pressure band and extending between the shell and pressure band to exert an outward pressure on the shell whereby the latter will resiliently support the said casing.

1,419,002. PAPER MACHINE. EDWARD B. WRIGHT and WILLIAM W. WEAVER, Fitchburg, Mass. Filed Dec. 11, 1920. Serial No. 429,943. 2 Claims. (Cl. 92—45.)

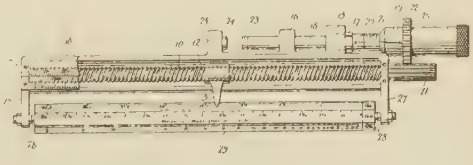


1. In a device of the class described, a bearing; a shaft journaled in the bearing; a collar on the shaft and exerting a thrust against the bearing, the collar having a neck; a second collar on the shaft and including a tubular body projecting toward the neck; a nut threaded on the body of the collar and comprising a neck; and a helical spring surrounding the necks of the collar and the nut, and abutting against the collar and the nut.

1,419,003. BOTTLE STOPPER. ADOLPH Y. S. ALBUM, Chicago, Ill. Filed May 4, 1921. Serial No. 466,748. 6 Claims. (Cl. 215—51.)

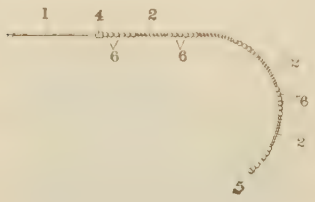
1. A bottle cap comprising a flat disk body having an integral tab extending outwardly therefrom, said tab being foldable inwardly toward the body of the cap, the point of fold being within the confines of the body and substantially spaced from the edge thereof.

1,419,004. GAUGE. CHARLES C. ALLEN, Indianola, Nebr. Filed July 22, 1920. Serial No. 398,093. 5 Claims. (Cl. 33—167.)



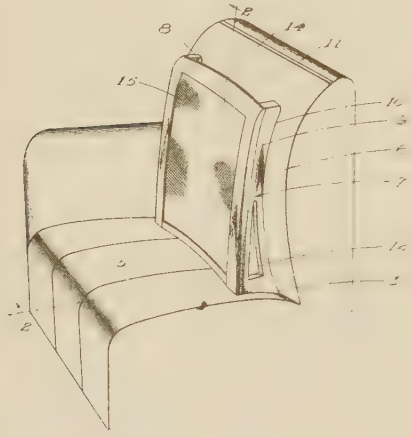
1. In a gauge of the class specified, the combination of a micrometer gauge comprising contact means adjustably disposed for engaging opposite portions of different products and devices, an indicator bearing scales representing the kind, weight in pounds and gauge of products tested and shiftable to bring varying scales into operative position, and a pointer longitudinally movable over said indicator simultaneously by and with the actuation of the micrometer to designate the kind, weight and gauge of the products.

1,419,005. SPRING. EDWIN BARNES, Sheffield, England. Filed Feb. 19, 1921. Serial No. 446,397. 4 Claims. (Cl. 88—52.)



1. Means for protecting a bent spring from damage due to a straightening force comprising the combination with the bent spring, of a plurality of perforated bead-like bodies small in relation to the bend of the spring threaded on the bend thereof, stops on the spring disposed with the bend between them and a spring encircling the bend between the stops and maintaining a series of contacts between stops, beads and spring.

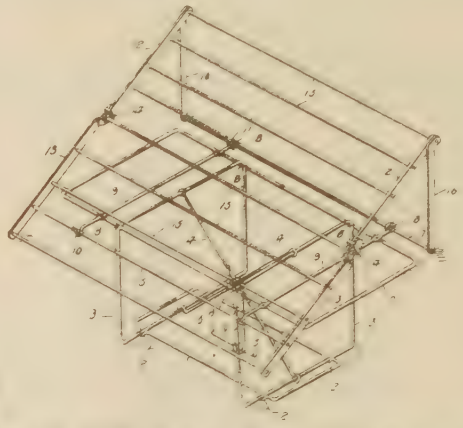
1,419,006. CHAIR OR SEAT. HOLLIS J. BARRETT, La Grange, Ill. Filed Aug. 31, 1921. Serial No. 497,259. 1 Claim. (Cl. 155—188.)



In a device of the character described the combination of two parallel vertical side members each having a curved back surface and a relatively wider base extending rearwardly at an acute angle to enter the space between the back and seat of an upholstered chair and each having an opening through the base portion for ventilation; a rectangular frame, the vertical portions of which are secured to the side members; a reticulate fabric stretched across the front of the rectangular frame leaving an open space between the upper portion of the frame and the chair back when the device is in place.

1,419,007. CLOTHESRACK. KENNETH T. BARRETT, Pittsfield, Mass. Filed May 23, 1921. Serial No. 471,679. 4 Claims. (Cl. 68—34.)

1. In a device of the character specified, a base frame having opposed members provided with corresponding crimps, upright frames supported in the crimps of the base frame, and braces pivoted at one end to the top members of the respective upright frames and detachably en-

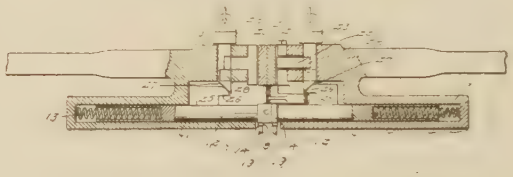


gaging the lower members of the respective opposite frames.

1,419,008. PROCESS FOR DISTILLING SULPHURIC ACID. GUSTAV BAUM, Carinthia, Austria, assignor to the Firm Chemische Fabrik Weissenstein Gesellschaft m. b. H., Carinthia, Austria, a Company of Austria. Filed June 11, 1921. Serial No. 476,901. 5 Claims. (Cl. 23—1.)

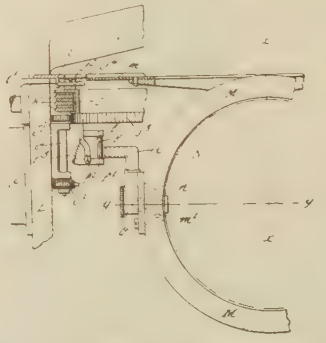
1. The process of distilling sulphuric acid, which comprises heating a body of the acid from an incandescent source of radiant heat above the surface of the acid.

1,419,009. AUTOMATIC RAILWAY-CAR COUPLING. ALFREDO BERNARDI, Sandoval, Ill. Filed May 25, 1921. Serial No. 472,415. 4 Claims. (Cl. 213—40.)



4. A car coupler having a pivotal knuckle jaw provided with a locking arm, a coupling pin for engaging the locking arm to hold the jaw in its coupled position, and a spring extended follower for repression by a similar follower on an opposing car having means for disengaging said coupling pin and opening the jaw, said follower carrying an air brake coupler jaw.

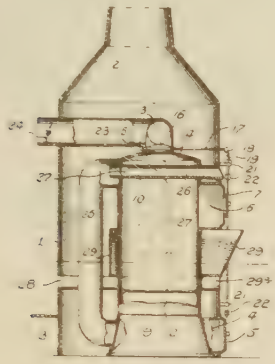
1,419,010. REPEATER FOR GYROCOMPASSES. SIDNEY GEORGE BROWN, North Acton, England. Filed Apr. 17, 1918. Serial No. 229,098. 11 Claims. (Cl. 177—351.)



1. In a repeater system for gyro-compasses, an air jet carried by the master compass and supplied with air

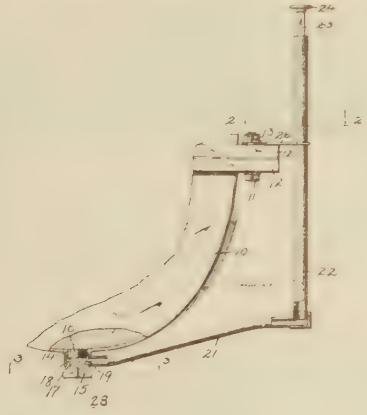
under pressure derived from the gyro-casing and means, controlled by and adapted to follow up the movement of the air jet, for causing the repeater system to follow the movements of the jet.

1,419,011. FURNACE. ALBERT A. BRUDER, Holly, Mich. Filed Oct. 19, 1920. Serial No. 418,065. 6 Claims. (Cl. 126—79.)



5. In a furnace having a combustion chamber with a fire therein, means producing a draft and adapted to cause products of combustion to travel from the top of said combustion chamber to a point below the fire therein, and means communicating with the combustion chamber at the fire therein for conducting heat units upwardly above the combustion chamber and independent of the first mentioned means.

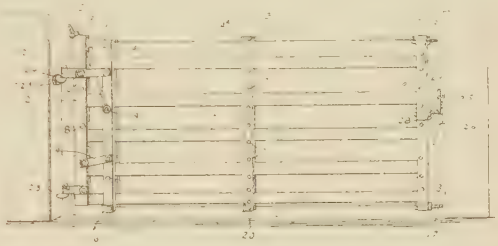
1,419,012. OIL GAUGE FOR INTERNAL-COMBUSTION ENGINES. ALEXANDER BRUNNER, Newark, N. J. Filed Nov. 30, 1920. Serial No. 427,277. 2 Claims. (Cl. 73—120.)



1. An oil gauge attachment comprising a plug with an open inner end and a transverse lateral passage, a pipe having one end in the form of an eye held by the plug against a crank case and spaced from the plug to form an annular passage communicating with the passage in the pipe, said pipe including a vertical part with a lateral perforated lip to go over a bolt on the crank case, and an ullage rod in said vertical part.

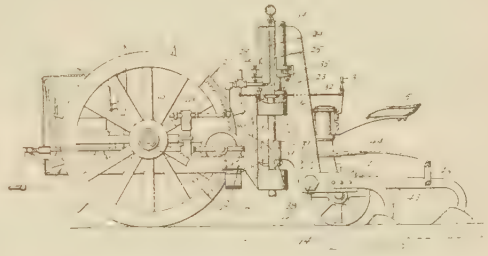
1,419,013. PORTABLE GATE. HARRY A. BURGESS, Goodland, Ind., assignor to Romine Manufacturing Co., Goodland, Ind., a Corporation of Indiana. Filed Apr. 29, 1920. Serial No. 377,461. 4 Claims. (Cl. 39—80.)

1. A gate structure including a plurality of bars disposed horizontally, a U-shaped frame member at the front and rear ends of said bars, a pair of angular shaped supporting members adjacent the rear ends of said bars, means for holding the supporting members in spaced relation with the rear frame member, bolts extending transversely through said supporting members below the bars



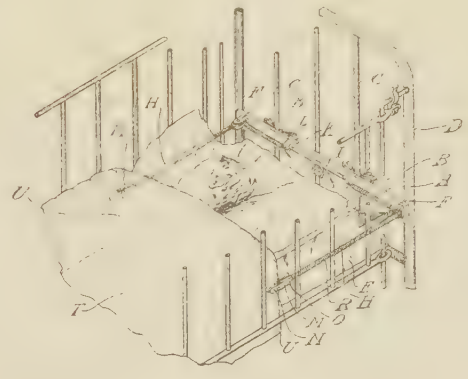
passing therebetween, and similar bolts passing transversely through the rear frame member and above the ends of said bars, whereby the bars will fulcrum on the bolts through the supporting members when the forward ends of the bars are elevated and the rear ends of the bars move independently of the rear frame member.

1,419,014. POWER-LIFT ATTACHMENT FOR TRACTORS. EVERETT R. BURTNETT, Los Angeles, Calif., assignor to George J. Ziegler, Los Angeles, Calif. Filed Mar. 2, 1921. Serial No. 449,087. 12 Claims. (Cl. 97—70.)



1. The combination with a tractor frame, of parts secured thereto and constituting a vertically disposed axis, a member swiveled on said axis, a portion of which member is in the form of a cylinder that encloses a part of the axis forming means, means for delivering fluid pressure into said cylinder and ground engaging implements pivotally connected to said swiveled member.

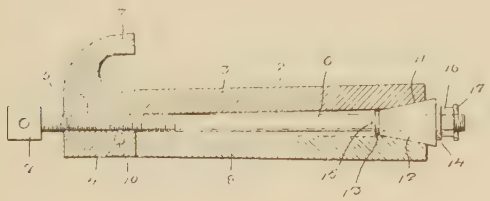
1,419,015. FLEXIBLE BED-COVER-RETAINING DEVICE. SIDNEY HOMER BUTTRICK, Melrose, Mass. Filed Oct. 26, 1920. Serial No. 419,641. 3 Claims. (Cl. 5—22.)



1. In a device of the character described, a pair of elastic and pliable spring extension members; a bac-

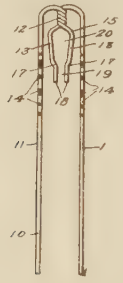
board provided with means for affixing the same with a bed, means for adjustably anchoring said extension members with said backboard, and end pulley members adapted to engage with said extension members for angularly bending and riding the same about said pulley members; means for adjustably varying the lengths of said extension members; and means provided the free ends of said extension members for temporarily gripping the bed covers therewith.

1,419,016. ANCHOR HOOK. ANGELO CAPIROSSO, Rossiter, Pa. Filed July 2, 1921. Serial No. 482,107. 3 Claims. (Cl. 85—2.)



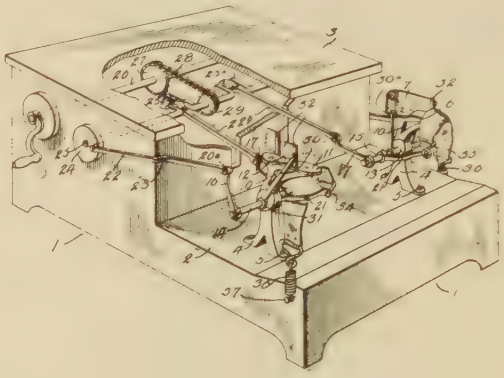
1. An anchor hook comprising a hook and a shank portion and lug integral therewith and a longitudinal threaded bore extending through the hook, a bifurcated member hinged to the lug of the hook, said shank portion and member having opposed tapers in their inner end portions, a longitudinal threaded rod extending through said bore of the shank and headed at its outer end, and a wedge member swivelled on the rod and interposed and movable rectilinearly between said tapers of the shank portion and member.

1,419,017. HAIRPIN. WILLIAM A. P. CATHCART, Honolulu, Territory of Hawaii, assignor of one-half to K. C. Hoon, Honolulu, Territory of Hawaii. Filed May 17, 1920. Serial No. 381,959. 1 Claim. (Cl. 132—52.)



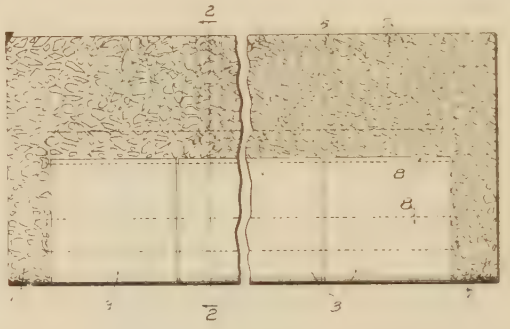
A hair pin formed from a pair of similar wire members of U-shape, each having one long and one short leg, said wire members being arranged in the same plane, the junctures of the shorter legs with the bight portions of the wire members being twisted together whereby the longer legs will define a hair pin proper and the shorter legs will be disposed between the longer legs whereby to constitute an auxiliary pin, the longer legs being parallel and formed serpentine throughout a portion of their length and the shorter legs constituting the auxiliary pin having their end portions disposed comparatively close and together and parallel and having their intermediate portions offset outwardly in opposite directions whereby the auxiliary pin will have a constricted entrance.

1,419,018. SHOE-SHINING MACHINE. LEE CHAMBERS, Bastrop, Tex. Filed Sept. 25, 1920. Serial No. 412,678. 8 Claims. (Cl. 15—97.)



1. In a shoe polishing machine of the class described, a stand, foot supports on the stand, horizontal shafts rotatable in said supports, upwardly extending arms keyed on said shafts, polishing strips attached to said arms, and means for rocking said arms.

1,419,019. TERRAZZO SAFETY TREAD. WILLIAM H. CHAPMAN, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed July 12, 1919. Serial No. 310,505. 6 Claims. (Cl. 72—96.)

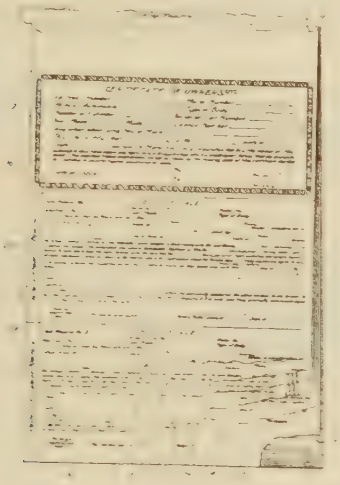


1. A safety tread comprising a foundation, a wear-resisting, anti-slipping element which includes an edge of the tread and a rear surfacing of wear-resisting chips spaced by a more wearable tread material, said chips forming a considerable portion of the rear surface and protecting said wearable material.

1,419,020. ABSTRACT OF TITLE FOR MOTOR VEHICLES. CARL C. CHASE, New York, N. Y., assignor to Motor Recording Corporation of New York, N. Y., a Corporation of Delaware. Filed May 20, 1921. Serial No. 471,085. 5 Claims. (Cl. 283—60.)

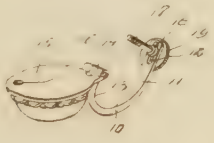
1. A title document for motor vehicles providing in permanent consecutive form evidence of the chain of title and adapted for retention by the owner and direct transfer to each successive purchaser or transferee, comprising permanently connected successive transfer record forms, and separably attached successive duplicate transfer

record forms, each corresponding to one of the permanent transfer forms, separably attached lien notices and



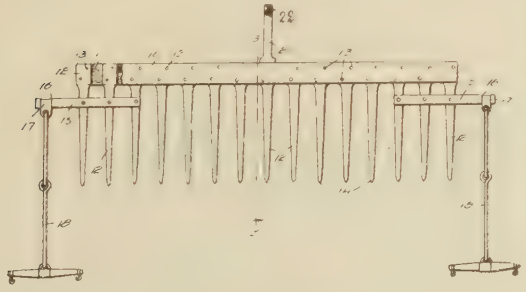
separably attached lien discharge notices corresponding to the individual lien notices, said notices being adapted for forwarding to the recording agency.

1,419,021. EARRING. ANGELO GABRIELE CICERCHI, Hillsville, Pa. Filed Oct. 10, 1921. Serial No. 506,923. 2 Claims. (Cl. 63—12.)



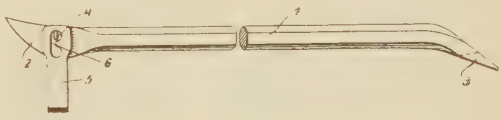
1. An ear ring comprising a substantially U-shaped body having arms of unequal length, a member hingedly mounted upon the free end of the shorter arm, said hinged section being adapted to support an ornament, said hinged section being provided with a threaded hole, the free ends of the longer arm of the body being formed with an elongated slot, and a screw extending through and permanently swivelly associated with said slot and adapted to be threaded into said hole.

1,419,022. RAKE. JAMES A. CLARK, Thorndale, Tex. Filed Mar. 29, 1921. Serial No. 456,585. 3 Claims. (Cl. 56—375.)



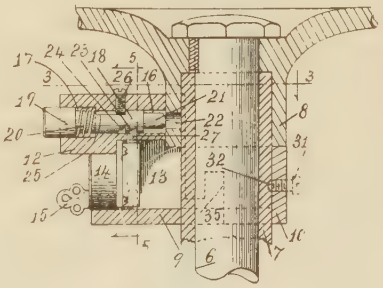
1. In a rake of the class described, a head member, a plurality of teeth extending from the head member in spaced relation, supports attached to the teeth in advance of the head member and extending beyond the end teeth, means for coupling draft appliances respectively to the extended portions of said supports, a bearing device depending from one side of said head member and a combined handle and overturning member attached to the head member at the side adjacent to the bearing device.

1,419,023. TOOL. FRANCIS R. CLIFTON, Omaha, Nebr. Filed May 14, 1920. Serial No. 381,390. 1 Claim. (Cl. 254—36.)



A tool of the class described comprising a shank, an enlarged beveled head provided thereon, said shank having a notch formed at one end thereof, studs projecting from the side faces of the head, a U-shaped fulcrum member having an elongated slot formed therein and engaging said studs, the slot having a restricted portion for permitting the studs to pass from one and thereof to the other when said member is in a certain position, said member forming a support for holding the head spaced from the floor.

1,419,024. STEERING-SYSTEM LOCK. JAMES L. COOK, Springfield, Ill. Filed Dec. 2, 1920. Serial No. 427,802. 4 Claims. (Cl. 70 -129.)

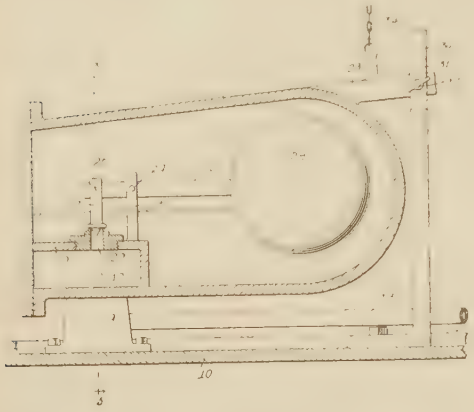


1. A housing for steering-system locks, comprising a first section having laterally projected side members extended outwardly parallel to each other, each member having a tongue and a notch adjacent to the tongue and extending transversely through the member, said section also having chambers to accommodate locking devices; an arched second section having lateraly projected side members in line with the respective side members of said first section, each side member of said second section having a notch to receive the tongue of the corresponding member of said first section and a tongue engaging in the notch of the corresponding member of said first section; and a single screw on the second section adapted to prevent rotation of the interlocked sections.

1,419,025. FEEDING DEVICE. WILLIAM LEANDER COULTAS, Jr., Seaford, N. Y. Filed Sept. 9, 1920. Serial No. 409,249. 6 Claims. (Cl. 158—38.)

1. A feeder, including a casing formed with inlet and outlet openings, a float operated valve co-acting with

said inlet openings for controlling the flow of fluid into said casing, means for rockingly supporting one of the



ends of said casing, and means for swinging the opposite end of the same to vary the level of the fluid in the casing.

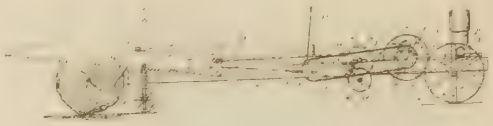
1,419,026. FOUNTAIN PEN. ARTHUR O. DAHLBERG, Madison, Wis. Filed July 7, 1921. Serial No. 482,957. 3 Claims. (Cl. 120—47.)

1. The combination with a fountain pen having a barrel, of a piston closely fitting said barrel, means for reciprocating said piston, said means comprising a plunger adapted to pass through said piston, and terminating in a valve head at the lower end thereof, projections on said plunger, on the opposite side of said piston and normally higher than the surface thereof, and adapted to engage said piston when said plunger is forced downward, a valve seat provided on said piston to receive said valve head of said plunger, means for normally holding said valve head against said valve seat.

1,419,027. HIGH EXPLOSIVE AND PROCESS OF PREPARING THE SAME. TENNEY L. DAVIS, Somerville, Mass. Filed Apr. 16, 1921. Serial No. 462,031. 5 Claims. (Cl. 52—5.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

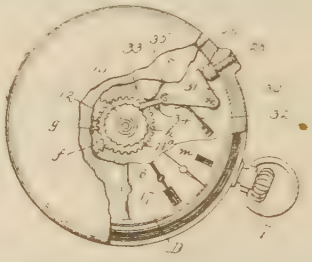
5. A high explosive consisting of pentanitronaphthole.

1,419,028. PORTABLE POWER SAW. JOHN H. DIERS, Blakeley, and OSCAR ARNESON, St. Paul, Minn, assignors to Liberty Power Saw Company, county of Ramsey, Minn., a Corporation of Minnesota. Filed Feb. 15, 1919. Serial No. 277,237. 11 Claims. (Cl. 143—68.)



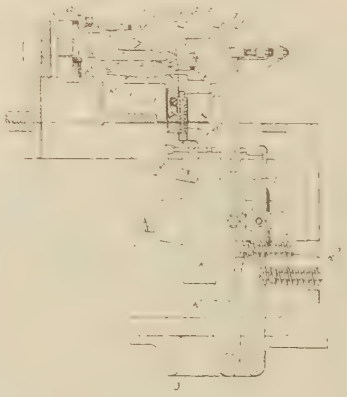
1. In a portable saw mill, a framework, a motor on said framework, vertically and horizontally projected saw supporting and motor driven saw driving devices, the former operative to support and operate a saw to cut in a horizontal plane and the latter operative to support and operate a saw in a vertical plane, a saw shiftable bodily from the one supporting device to the other and arranged to be operated from the one or the other of said driving devices, according to the position in which it is set, and a chain also bodily shiftable from a horizontal to a vertical plane to drive said saw in either position.

1,419,029. DIAL TRAIN. OTTO DOLL, Greenwich, Conn. Filed June 3, 1921. Serial No. 474,623. 3 Claims. (Cl. 58—125.)



1. In a dial train, the combination with hour and minute hands and their driving mechanism; of an additional hour hand frictionally driven with said hour hand, a wheel connected thereto and manually operated mechanism to step said wheel.

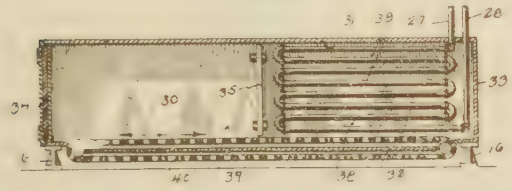
1,419,030. TYPOGRAPHIC MACHINE. PERCY WALTER DRUITT and WILLIAM ROBERT GILPIN, London, England. Filed Oct. 12, 1920. Serial No. 416,529. 6 Claims. (Cl. 199—72.)



1. In typographic machines of the kind herein referred to, the combination with a type mould of character mat-

rices each having more than one separately usable character on the same working face, means adapted to present each matrix to the mould in position to effect the casting of any one of the characters and means comprising a blank matrix or controller introduced into the line of matrices operating to determine which of said characters is presented in the casting position.

1,419,031. STERILIZING APPARATUS. DAVID E. DUFRESNE, St. Lambert, and WILLIAM ADAMSON, Montreal, Quebec, Canada. Filed Oct. 5, 1920. Serial No. 414,867. 2 Claims. (Cl. 167—3.)



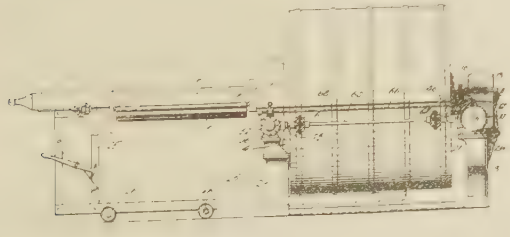
1. In an apparatus of the character described, the combination of a housing including opposite side walls, a top, a bottom and an end wall, a hinged closure for the opposite end of the housing and sealing the latter, a conveyer leading through the apparatus and extending through both compartments, closures hinged to the opposite side walls of the housing intermediate the ends thereof, buffers attached to the inner edges of the hinged closures for sealing the same, and means within the inner compartment for heating the same and dry sterilizing the equipment placed therein.

2. In an apparatus of the character described, the combination of a housing, hinged closures secured to the side walls of the housing intermediate the ends thereof and dividing the latter into two compartments, a conveyer extending through said housing and through both compartments thereof, whereby equipment placed in the outer compartment may be carried to the inner compartment and by its passage through the housing open the doors separating the compartments, and heating means for the inner compartment whereby equipment positioned therein will be sterilized.

1,419,032. COMPOSITION FOR OPAL GLASS. ALEXANDER L. DUVAL D'ADRIAN, Washington, Pa. Filed June 27, 1921. Serial No. 480,863. 3 Claims. (Cl. 106—36.1.)

1. A composition to be added to the usual glass mixture, comprising a complex fluoride of an amphoteric element with a fluoride of an alkaline earth metal.

1,419,033. COMBINED CHURN AND BUTTERWORKER. HARVEY FELDMEIER and CHARLES B. DALZELL, Little Falls, N. Y., assignors to D. H. Burrell & Co., Inc., Little Falls, N. Y. Filed Jan. 20, 1922. Serial No. 530,654. 17 Claims. (Cl. 259—84.)

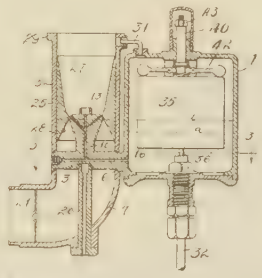


1. In a combined churn and butter worker, the combination with a rotary drum, a stationary supporting frame therefor, and butter working rolls mounted on an independent carriage and insertable in an open end of said drum, of a driving mechanism for said drum and rolls comprising a gear drive for said drum, a speed changing transmission gear mounted on said frame connected with said rolls and having a flexible connection with said drum gear drive, and a drive for said rolls detachably connected with said rolls and having a flexible connection with said speed changing transmission gear.

1,419,034. ORNAMENTAL COVERING FOR SHOE BUTTONS. THEODORE H. FISHEL, New Rochelle, N. Y., assignor to Fishel Nessler Company, a Corporation of New York. Filed Jan. 25, 1922. Serial No. 531,825. 1 Claim. (Cl. 24—113.)

As a new article of manufacture, a shoe button covering comprising an ornamental covering member, and a fastening member having its ends bent outward and secured to the rear of the covering member at diametrically opposite points and having a substantially U-shaped bend in its own plane intermediate its ends.

1,419,035. CARBURETOR. JOHN M. FLANNERY, Detroit, Mich., and FRANK C. DETTELBACH, Cleveland, Ohio, assignors, by mesne assignments, to The Eagle Carbureter Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 10, 1919. Serial No. 281,766. 1 Claim. (Cl. 261—41.)

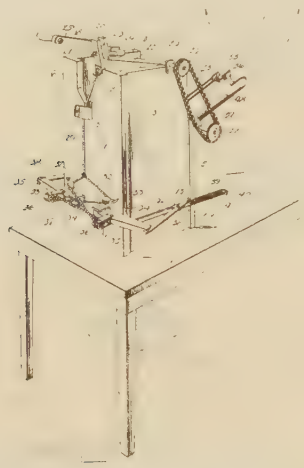


In a carburetor, in combination, an upright mixing chamber, a fuel nozzle therein having an enlargement, a slidable venturi in said chamber having a constricted portion adapted either to seat upon the enlargement of said nozzle and close the passage surrounding the same or to be elevated thereabove producing a variable passage, said nozzle being formed with a second air passage independent of the first passage, and with independent fuel ducts cooperating with the respective passages and means for controlling the flow of air through said first passage.

1,419,036. POTATO CUTTER. OLE E. FLOBERG, Shelly, Minn. Filed July 15, 1921. Serial No. 484,968. 5 Claims. (Cl. 146—7.)

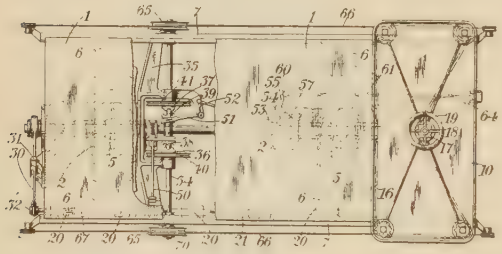
1. A potato cutter comprising a casing having horizontal slots in its opposite walls above its lower end, a stationary knife within and extending across the casing with its lower edge in the plane of the upper walls of said slots, a movable knife extending across the casing and slidably engaged in and supported by said slots, means for depositing potatoes upon the stationary knife, means

for forcing the potatoes past the stationary knife, and means exterior of the casing connected to the ends of



the movable knife for effecting travel of said knife across the lower end of the stationary knife to transversely cut the potatoes.

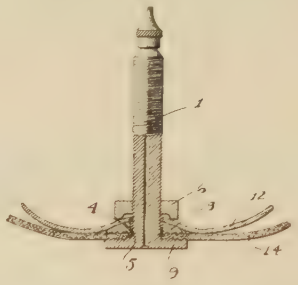
1,419,037. CUTTING MACHINE. HENRY HOWARD FREER, Leicester, England. Filed Sept. 1, 1921. Serial No. 497,578. 7 Claims. (Cl. 164—19.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A cutting machine comprising in combination a substantially horizontal support for the material to be cut, a knife press, means to reciprocate said press vertically over the support, means to impart rectilinear movement to the press along the support, selective mechanism manually operable to control automatically and in sequence the horizontal movement of the press up to one of a plurality of predetermined positions over the support, then the vertical reciprocation of the press to effect the cutting stroke, and subsequently the return of the press to its initial position on completion of said stroke, substantially as described.

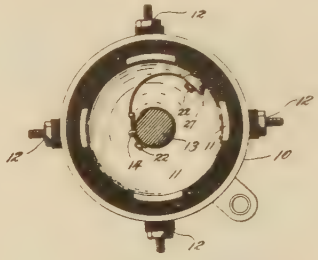
1,419,038. INFLATION MECHANISM. ERNEST L. FULLER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 16, 1920. Serial No. 403,686. 5 Claims. (Cl. 152—12.)

5. The combination with a valve stem formed with a corrugated base and the stem corrugated adjacent the base, of a convex washer having a corrugated face, a



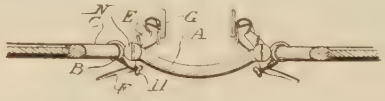
spreader formed with a concavo-convex central portion, and a lock-nut having a recessed working face.

1,419,039. SPRING BRUSH FOR TIMERS. ANTHONY GEROSA, New York, N. Y., assignor to William F. Hudson, Philadelphia, Pa. Filed Dec. 30, 1918, Serial No. 268,964. Renewed Sept. 23, 1921. Serial No. 502,684. 1 Claim. (Cl. 200—26.)



A timer brush comprising a sleeve, a spring arm mounted upon and extended from said sleeve, means for detachably securing said arm to said sleeve including a headed stud upon the sleeve and an aperture and slit in the arm, and restraining means also extended from the sleeve for freely engaging said arm to limit the radial play thereof and to prevent substantial transverse movement of said arm.

1,419,040. EYEGLASS MOUNTING. HOMER R. GETTLE and CHARLES S. SCOTT, Bluffton, Ind. Filed Oct. 11, 1921. Serial No. 507,014. 2 Claims. (Cl. 88—50.)

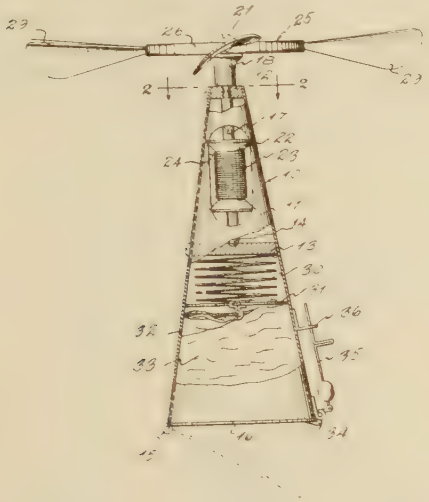


1. In an eye glass mounting including a nose piece having means thereon for attachment with the lenses of an eye glass, the mounting further including a pair of pivoted levers provided at one end with nose grips and provided at their other ends with lateral extensions constituting finger levers, means carried by the levers and engageable with the end portions of the nose piece whereby to vary the distance between the nose grips, said means comprising screws threaded through the levers and having their ends engaging against the end portions of the nose piece or bridge.

1,419,041. FLYING TOY. GEORGE A. GILLEN, Jersey City, N. J., assignor to Gillen Laboratories Corporation. Filed Feb. 6, 1922. Serial No. 534,370. 10 Claims. (Cl. 244—2.)

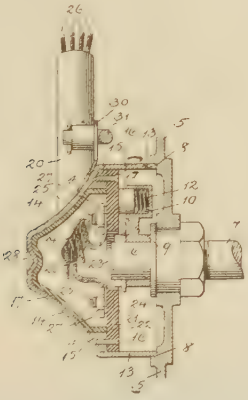
10. A toy comprising, a hollow frusto-conical casing, a manually actuated propeller at the reduced end of the

casing, the opposite end of the casing forming a parachute chamber, a door hinged to the enlarged end of the casing for closing the parachute chamber, a parachute



normally retained within the chamber by the door, spring means for ejecting the parachute when the door is released, and a gravity actuated latch for normally holding the door closed.

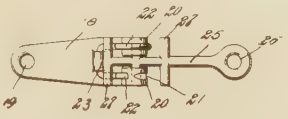
1,419,042. TIMER. ABRAHAM S. GOLDSTEIN, Baltimore, Md., assignor to Time-Rite Manufacturing Company, Baltimore, Md., a Corporation of Maryland. Filed Apr. 12, 1919. Serial No. 289,706. 1 Claim. (Cl. 200—19.)



A timer device comprising a casing having an annular portion and a conical portion which latter has an opening in one side and said casing having lugs on its interior; a conical interior lining in said casing and fitting around said lugs with its rim edge flush with said lug ends; a disk of insulating material in the casing and seated against the rim edge of the lining and also against said lugs and contact plates attached to the disk and having binding posts projecting through the disk to the side confronting the conical lining.

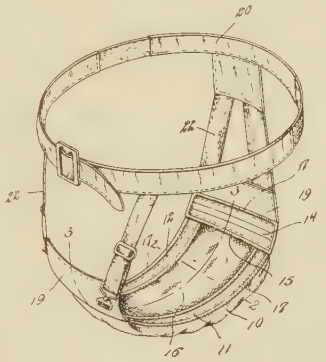
1,419,043. TIRE-CHAIN FASTENER. JOHN GRAY, Elyria, Ohio. Filed June 14, 1921. Serial No. 477,504. 3 Claims. (Cl. 24—68.)

3. A fastener of the character described comprising two members, spaced hooks arranged at the end of one of the said members, spaced pairs of lugs carried by the other member and adapted to be interchangeably received by said hooks, resilient locking members designed to engage said hooks to hold the members operatively associated, said locking elements being formed to provide shoulders



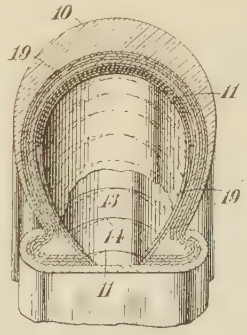
adapted to be engaged by the lugs and arranged in advance of the lugs positioned in said hooks for the purpose specified.

1,419,044. CATAMENIAL SACK. JULIA A. GUNDERSON, Sergeant Bluff, Iowa, assignor of one-third to Arthur J. Gunderson, Long Beach, Calif., and one-third to Gertrude G. Strong, Sioux City, Iowa. Filed Oct. 5, 1920. Serial No. 414,721. 1 Claim. (Cl. 128—286.)



A device of the class described comprising a sack of impervious material having inturned side portions provided with welt edges, transverse strips provided with welt edges secured to the ends of said sack, transverse strips secured to one side of said sack adjacent to the opposite ends thereof, an absorbent pad disposed in said sack between said inturned sides and the first mentioned strips and having the ends of said pad folded over the last mentioned strips, relatively short pieces of fabric secured to the ends of said sack and a circular supporter removably secured to said pieces of fabric.

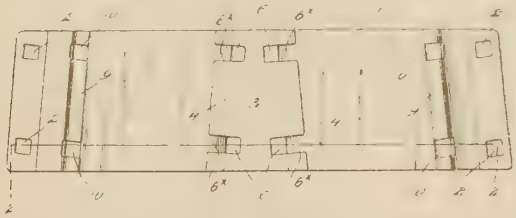
1,419,045. PNEUMATIC TIRE. CHRISTOPHER H. HAMILTON, South Devon, England. Filed Dec. 9, 1920. Serial No. 429,505. 3 Claims. (Cl. 152—18.)



1. A tire shield adapted for detachable insertion into and removable from a tire comprising in combination a series of separate metallic armor scales each curved to approximate to the circumferential and transverse curvature of the tire with which the shield is to be used, and one overlapping another to form a protective ring open at the sides, each of said scales extending entirely across

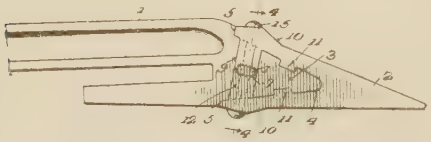
the periphery of the ring, flexible securing means extending across the scales and beyond the side edges of the ring and arranged to lie on that face of the ring which will be toward the inner tube of the tire, and a plurality of rivets attaching each scale to said securing means independently of the other scales, only one rivet being provided at each side edge of each scale, for maintaining the scales in their correct relative relationship.

1,419,046. RAIL-HOLDING PLATE. JAMES HANDEN, Covington, Ky. Filed June 11, 1921. Serial No. 476,869. 1 Claim. (Cl. 238—20.)



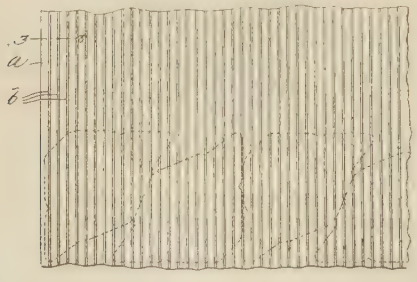
A rail holding plate for crossovers, comprising a body having spike holes spaced apart, a projection rising from the body at a point between the said spike holes and having grooves in its edges and portions overhanging said grooves and notches in the overhanging portions and extending to the edges thereof and arranged with their inner portions in vertical alinement with the said holes, and projections rising from the body at opposite sides of and in spaced relation to the first-named projection and having spike holes.

1,419,047. DIPPER TOOTH. GEORGE R. HANKS and ROBERT SOMERVILLE, High Bridge, N. J., assignors to Taylor-Wharton Iron and Steel Company, High Bridge, N. J., a Corporation of New Jersey. Filed June 11, 1921. Serial No. 476,862. 8 Claims. (Cl. 37—56.)



1. In combination, a point-carrying element having its upper and lower bearing surfaces transversely slotted and having side slots, and a reversible point having panels for slidable engagement with said transversely slotted portions and having a side bar adapted to either of the side slots.

1,419,048. METHOD OF MAKING REENFORCED RECEPTACLES. MARY R. HARRISON, Boston, Mass., assignor to Edward H. Angier, Framington, Mass. Filed Apr. 5, 1920. Serial No. 371,331. 3 Claims. (Cl. 93—61.)

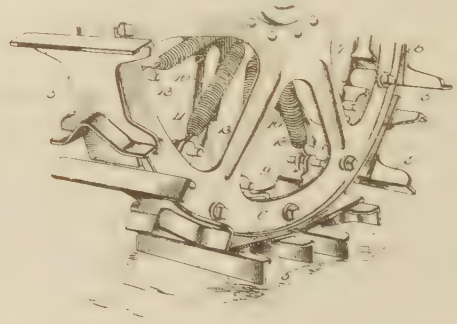


1. The method of making reenforced paper for folded receptacles, consisting in securing to a web of paper a plurality of separate spaced flat textile strands, and cutting blanks from said web in a manner to cause the strands to cross the blanks at an acute angle to the lines required for folding the blanks to receptacle form.

1,419,049. TENSION DEVICE. WILLIAM B. HARSEL and RALPH B. DAY, Akron, Ohio, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed July 17, 1918. Serial No. 245,397. 7 Claims. (Cl. 273.)

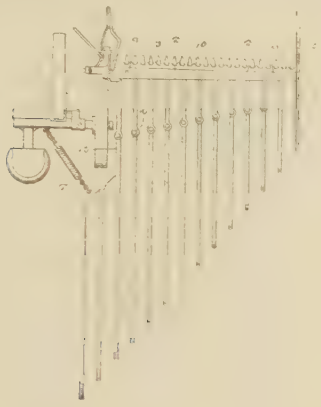
4. A brake for fabric tensioning mechanisms including a support and a tensioning roll journaled therein, comprising an oscillating member mounted upon the roll journal and movable about said journal, a friction element clutched upon the tensioning roll, a braking element mounted for engagement with said friction element, means for normally disengaging the braking element from the friction element, and means for engaging said elements whereby said tension roll is retarded or released upon movement of the oscillating member.

1,419,050. TRACTOR WHEEL. WILLIAM M. HENDERSON, Easton, Pa., assignor to William Wharton, Jr., & Co., Incorporated, Easton, Pa., a Corporation of Pennsylvania. Filed Sept. 3, 1919. Serial No. 321,419. 2 Claims. (Cl. 305—13.)



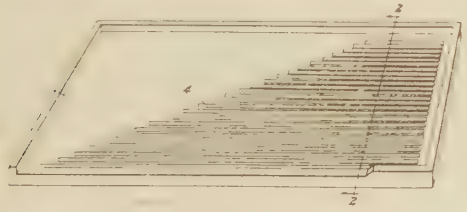
2. In a wheel of the type recited, the combination of floating track-laying units or pads having lugs with registering openings, cross pins adapted to said openings and whereof each is provided with a central annular groove, and spring supports for said pads and whereof each is provided with a ring-like terminal adapted to said groove.

1,419,051. SWATHER FOR MOWING MACHINES. JOHN R. HINTON, Hansen, Idaho. Filed Dec. 11, 1920. Serial No. 429,954. 6 Claims. (Cl. 56—192.)



6. The combination with the cutting mechanism and the carrying bar thereof, of division means at the outer end of and disposed at right angles to the carrying bar, a bar arranged at the underside of and fixed to said carrying bar and fixedly connected to said division means, a rigid outer tine fixed to the underside of and extending rearwardly from the second-named bar in parallelism to the division means, forward tine members fixed to the underside of and extending rearwardly from the second-named bar and arranged in spaced relation and gradually increased in length inwardly, tine members hingedly connected at their forward ends to the rear ends of all of the forward tine members save the innermost forward tine member and gradually increased in length inwardly and having their rear portions deflected upwardly, a shank hingedly connected to the rear end of the innermost forward tine member and carrying a plurality of tines gradually increased in length inwardly and having their rear portions deflected upwardly, and a retractile spring connected with the said shank to assist in the return of the said plurality of tines on the shank to their normal trailing positions.

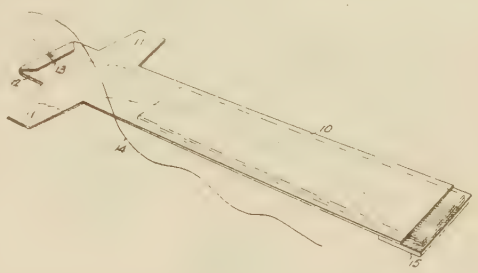
1,419,052. RIFFLE BOARD. JOE HORN, Eureka, Utah. Filed Sept. 23, 1920. Serial No. 412,152. 2 Claims. (Cl. 83—88.)



1. A riffle board comprising a wooden deck, a tar paper covering upon said deck, riffle plates upon said covering spaced apart and retained in position by means of spacer strips extending the length of said riffle plate to form a base, said spacer strips being nailed through the tar paper covering to the wooden deck, and tightening clips inserted between said riffle plates and said spacer strips.

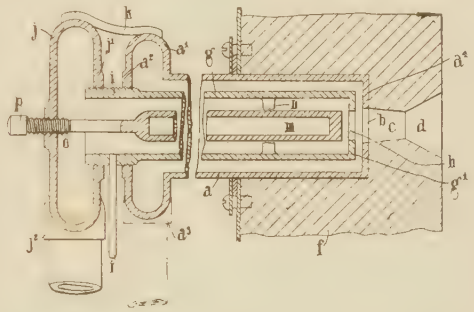
1,419,053. FOLDER FOR CLOTH SAMPLES. ROSCOE ARLINGTON HOWARD, Oldtown, Me. Filed Mar. 16, 1921. Serial No. 452,869. 6 Claims. (Cl. 229—87.)

2. A folder for sample cloth and the like, including an elongated strip, lateral flaps on said strip near one end at opposite sides of the strip, there being an end flap adjacent to said side flaps and a tie string secured at one



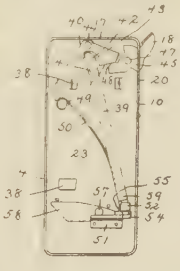
end to said end flap, said strip being of a length to follow the folds of the material to be wrapped, said side flaps being adapted to fold onto the wrapped material.

1,419,054. GASEOUS-FUEL BURNER. ALEXANDER CONSTANTINE IONIDES, Jr., London, England. Filed Oct. 27, 1919. Serial No. 333,653. 7 Claims. (Cl. 158—109.)



1. In combination in a gaseous fuel combustion appliance for forming a mixture of two fluids closely adjacent to the combustion zone, a chamber, an orifice opening from the end thereof to a combustion space, a tubular member movable axially to and from said orifice in said chamber and having an end provided with an aperture in line with and adjacent to said orifice, a member within said tubular member complemental to and in line with said aperture and axially movable to adjust the passage of fluid therethrough and means for supplying the two constituents of a combustible gaseous fluid mixture separately to said chamber and said tubular member.

1,419,055. COIN-CONTROLLED VENDING MACHINE. BERTHOLD JAHN, New Britain, Conn., assignor to The B. Jahn Manufacturing Company, New Britain, Conn. Filed Mar. 31, 1917. Serial No. 158,777. 3 Claims. (Cl. 194—48.)



2. In a vending machine, a lever for ejecting goods from the said machine and having a recess for holding

a coin, a fixed platform for supporting the said coin during the major part of its movement, and a latch device for locking the said lever normally and operative to be released from the locking position by the said coin comprising a platform portion, positioned adjacent the said fixed platform, that serves to receive and support the said coin before delivery to the said fixed platform.

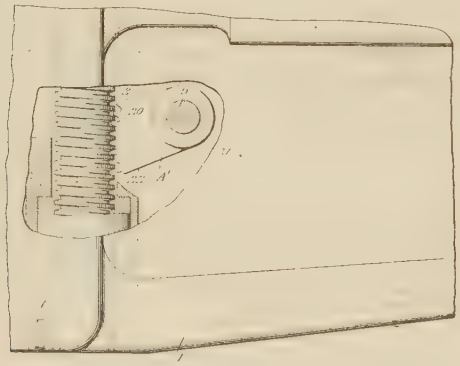
1,419,056. DIE. MORRIS LEWIS KAUFMAN, Brooklyn, N. Y. Filed Oct. 19, 1920. Serial No. 417,870. 6 Claims. (Cl. 46—56.)

1. A die comprising a fourteen-sided polyhedron, the surfaces of which are characterized by the characters used in a deck of playing cards, one of said surfaces being a blank surface.

1,419,057. EDIBLE PRODUCT OBTAINED FROM THE SUGAR JUICES OF BEETS AND PROCESS OF OBTAINING IT. PAUL KESTNER, Paris, France. Filed June 30, 1920. Serial No. 393,156. 2 Claims. (Cl. 99—11.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. A process of manufacturing a sweet extract from beet, consisting in treating the sugar juices extracted from beet root in an evaporator, raising the temperature of evaporation by setting up a counter pressure in the evaporator, maintaining this pressure only a brief period of time sufficient to insure the odorization of the product, and thereafter removing the counter pressure by allowing the syrup to flow out of the evaporator to be immediately cooled.

1,419,058. GEAR-LIKE SAFETY DEVICE FOR STRIPPED THREADS. DAVID C. KLAUSMEYER, Cincinnati, Ohio, assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Nov. 26, 1921. Serial No. 518,036. 7 Claims. (Cl. 74—40.)



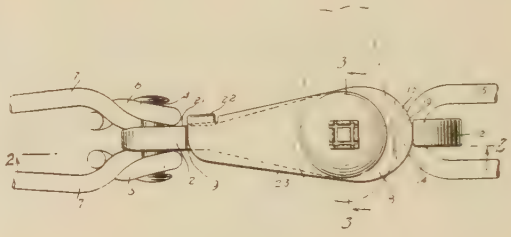
1. A machine-tool of the nature disclosed combining a frame element; a nut and screw cooperating to elevate said element; and a gear-like member pivotally carried by said element and meshing with the threads of said screw and adapted to be rotated about its pivot so as to be moved thereby independently of said element at the termination of the cooperation between the nut and screw.

1,419,059. BLOOMER DRESS. MAURICE KLEIN, Brooklyn, N. Y. Filed July 8, 1920. Serial No. 394,702. 1 Claim. (Cl. 2—145.)

A garment comprising a dress having a skirt provided at its lower portion with an inwardly and upwardly turned flap terminating at its upper edge in a hem located a distance below the waist line of the skirt, a bloomer provided with legs and having at its upper end an outwardly and downwardly extending flap enclosing

the hem of the skirt flap and extending between the body of the skirt and the said hem, and a circumferential row of stitching fastening the said skirt, hem and bloomer flap together.

1,419,060. TIRE-CHAIN FASTENER. CHARLES L. KNOWLES, Kingsley, Iowa. Filed Apr. 16, 1921. Serial No. 461,920. 2 Claims. (Cl. 24—232.)

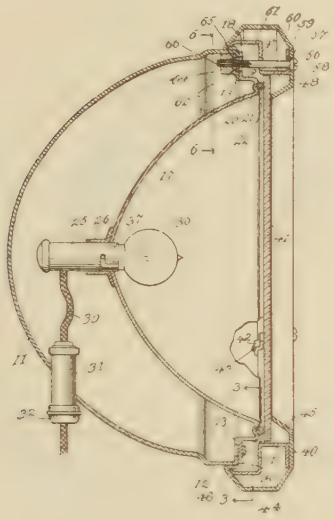


2. A fastening device which comprises a body portion, a flat seat on the upper edge thereof, a pivoted cam member mounted on the seat, a handle portion to said cam member, a depending flange on the handle portion to engage an edge of the body portion in a predetermined position of the handle to limit the movement of the cam member, a curved hook formed on one end of the body portion and bent to form a recess between itself and the adjacent part of the body portion, the end of the hook being disposed substantially in the plane of the cam member and spaced from the body portion to form a passage which is closed by the cam member when the cam member is disposed in a definite position.

1,419,061. REENFORCED RUBBER PROPELLER. HERMAN T. KRAFT, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed June 29, 1917. Serial No. 177,721. 10 Claims. (Cl. 170—159.)

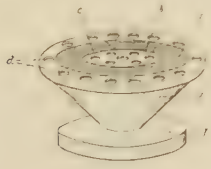
1. As a new article of manufacture, an air craft propeller including an interior reinforcing element composed of associated metal strands and a body of an agglomerated carbonaceous material molded to shape a propeller upon the reinforcing element.

1,419,062. LAMP. EUGENE A. KUEN, Cincinnati, Ohio, assignor to Thomas J. Corcoran, Cincinnati, Ohio. Filed Apr. 7, 1919. Serial No. 288,131. 7 Claims. (Cl. 240—41.)



1. In a lamp, the combination of a body, a reflector, and a closure, tension members connetcing said body reflector and closure, comprising coacting parts respectively on said body and said closure, positioning means between said reflector and said body, and positioning means between said closure and said body, to axially aline said coacting parts.

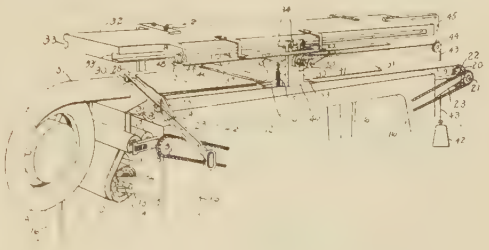
1,419,063. APPARATUS APPLICABLE TO THE RECEIVERS OF TELEPHONES. FEDERICO SANTOS LAMADRID, Madrid, Spain. Filed May 23, 1919, Serial No. 299,372. Renewed Feb. 10, 1922. Serial No. 535,613. 3 Claims. (Cl. 179—182.)



1. An auxiliary telephone receiver, including a body, a disk closure for one end of the body having spaced annular rows of perforations, and a vibration damping strip secured to the disk between the rows of perforation.

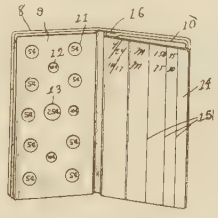
1,419,064. TIRE-MAKING MACHINE. CHAUNCEY L. LANDON, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 11, 1919. Serial No. 316,811. 17 Claims. (Cl. 154—10.)

11. Apparatus of the character specified, comprising the combination of means for cutting from a strip of fabric a length suitable for building a tire carcass on a forming core, and reciprocatory means adapted to automatically



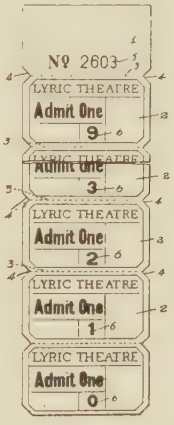
grip the length of fabric and hold it yieldingly as it is wound onto the forming core.

1,419,065. BANK BOOK. MALVIN LICHTER, New York, N. Y. Filed May 19, 1920. Serial No. 382,570. 3 Claims. (Cl. 229—92.9.)



2. A bank book, comprising a book back bent double and thus provided with a pair of leaves facing each other and connected together by a fold, a pair of coin cards carried by said book back and provided with a number of separate coin compartments, each coin card being secured to the leaf immediately adjacent, so that the coin, cards thus face each other.

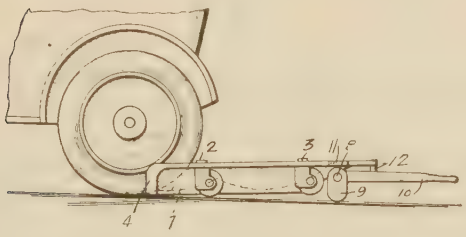
1,419,066. TICKET. CAPTILLES ALOYN LICK, Fort Smith, Ark., assignor to Weldon, Williams and Lick, Fort Smith, Ark., a Corporation of Arkansas. Filed Dec. 27, 1920. Serial No. 433,393. 2 Claims. (Cl. 283—51.)



1. As a new article of manufacture, a ticket strip, comprising a stub, and a series of tickets attached thereto, said stub containing a number, and said tickets containing numerals, the ticket numerals being arranged in con-

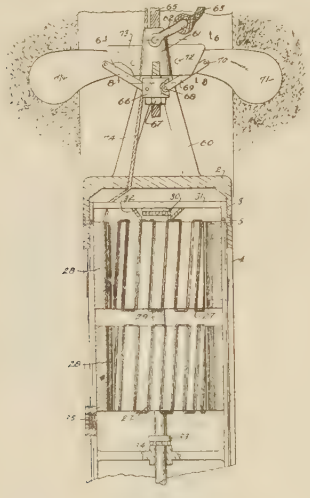
secutive order, and said stub number and said ticket numerals having a relation to each other whereby, to determine the number of tickets sold, by adding the numeral of the ticket at the free end of the strip at the end of the series of numerals forming the stub number.

1,419,067. AUTOTRUCK. THOMAS J. MCCARTHY, Lawndale, Calif., assignor to Auto Lift and Carrier Company, Phoenix, Ariz., a Corporation of Arizona. Filed Apr. 28, 1921. Serial No. 465,082. 3 Claims. (Cl. 280—61.)



1. A truck having a runway adapted to receive a wheel of a vehicle, and a cam at one end of said truck adapted to be swung into ground engaging position for elevating the near end of said truck and to cause the opposite end of said runway to engage the ground.

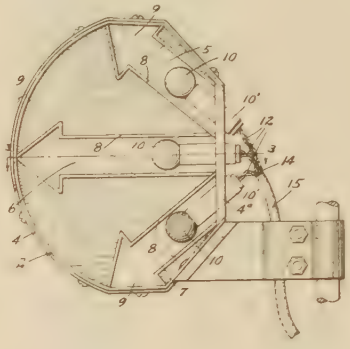
1,419,068. ELECTRIC WELL-BORING TOOL. ROBERT M. MCFADDEN, Havana, Ill. Filed Feb. 5, 1920. Serial No. 356,441. 11 Claims. (Cl. 255—4.)



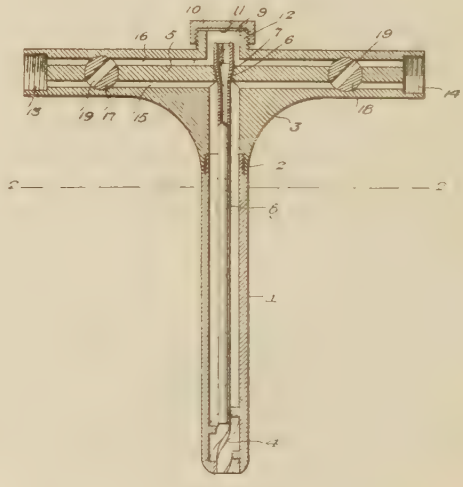
1. A well drilling unit comprising a relatively stationary cylindrical housing, an electric motor arranged for operation within said housing, a drilling head rotatably connected to the housing and motor, a plurality of rotary cutting tools carried by the drilling head and driven from the motor, which unit is adapted to be bodily lowered into and removed from a well.

1,419,069. AUTOMOBILE DIRECTION INDICATOR. GUSTAVE MARSILE, Los Angeles, Calif. Filed Mar. 4, 1920. Serial No. 363,111. 1 Claim. (Cl. 177—327.)

In a direction indicator for vehicles, a bracket, a housing carried by said bracket, which housing is provided with translucent front and rear walls, a plurality of partitions arranged within the housing to form a series of elongated arrow shaped chambers which converge at one side of the housing, the upper one of which chambers occupies an upwardly inclined position, the lower chamber occupying a downwardly inclined position and the intermediate chamber occupying a horizontal position, all of said chambers being closed front and rear by the translucent walls of the housing, an electric lamp located within each chamber and the lamp in the lower one of said arrow-shaped chambers being distinctively colored.

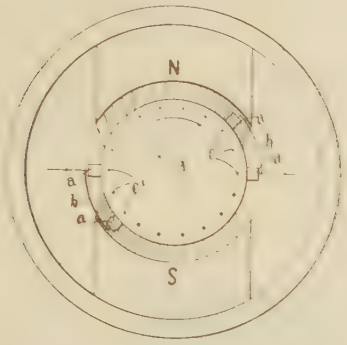


1,419,070. OIL BURNER. WILLIAM A. MAYS, Austin, Tex. Filed May 29, 1920. Serial No. 385,290. 4 Claims. (Cl. 158—75.)



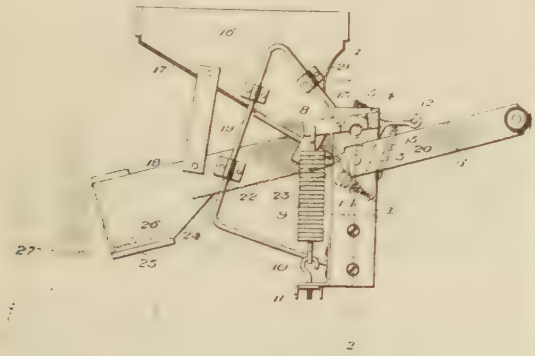
1. A burner comprising a body having a longitudinal main bore and also having an outer threaded nipple together with inlets for oil and steam, respectively, and bores arranged in parallelism and at right angles to the main longitudinal bore and extending between said inlets; an oil tube open at its ends and having a threaded outer end enlargement detachably secured in the body and disposed within and spaced from the wall of the nipple and also having the outer end portion of its interior of angular form in cross section; a cap removably arranged on the threaded nipple; and valve plugs each having a diametrical port to effect connection between the bores intermediate of the oil and steam inlets, said valve plugs being mounted and capable of being turned about their axes in the body.

1,419,071. SELF-REGULATING CONTINUOUS-CURRENT DYNAMO. ALBERT HENRY MIDGLEY, Acton Vale, England, assignor of one-half to C. A. Vandervell & Company Limited, Acton Vale, England. Filed Dec. 21, 1918. Serial No. 267,821. 1 Claim. (Cl. 171—223.)



A variable speed self-regulating continuous current dynamo having an armature and armature conductors thereon, main poles, and means for short-circuiting a plurality of armature conductors lying under the lagging pole tips, as set forth.

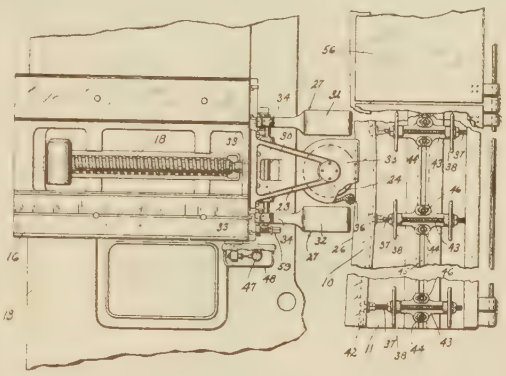
1,419,072. BEAN SHELLER. BYRON MORELOCK, Camden, N. J. Filed June 23, 1919. Serial No. 305,964. 1 Claim. (Cl. 130—30.)



A device of the class described comprising an upright frame provided with aligned slots, a vertically movable shaft mounted in said slots, a longitudinally fluted roller secured to said shaft, a shaft journalled in suitable bearings in said frame beneath the shaft aforesaid, a crank handle secured to one end of the last mentioned shaft, the longitudinally fluted roller secured to the last mentioned shaft, L-shaped brackets secured to said frame at the lower end thereof, adjustable hooks carried by said brackets, arms pivotally secured to opposite sides of said frame and engaging the first mentioned shaft, and coil springs secured to the free ends of said arms and connected to said hooks.

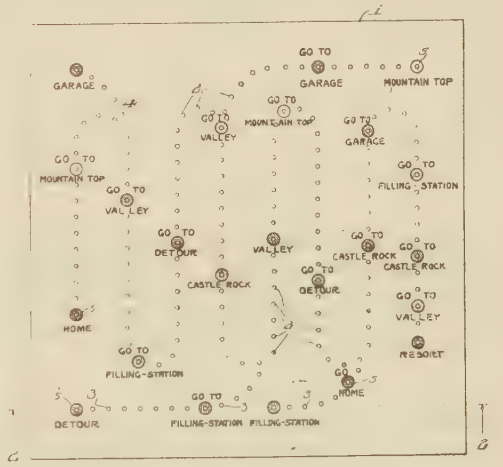
1,419,073. MACHINE FOR FORMING ROLLS. CHARLES H. NORTON, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed May 28, 1920. Serial No. 384,877. 13 Claims. (Cl. 51—100.)

1. In a machine tool having work and tool carriers which are capable of relative translation and one of which is movable transversely, a flexible forming bar to guide said transversely movable carrier and means for



flexing said bar at any desired point intermediate its ends to give it a desired contour.

1,419,074. GAME. CLINTON M. PHILO and FLOYD O. BOWERS, Lansing, Mich. Filed Feb. 12, 1921. Serial No. 444,559. 2 Claims. (Cl. 46—63.)

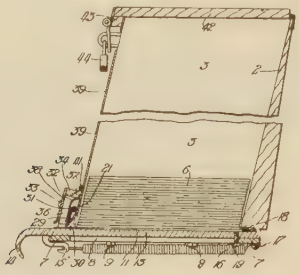


1. In a game a board provided with a plurality of recesses drilled thereinto from one face of the board, said recesses spaced one from another and arranged in a sinuous path and in branch paths branching off from said sinuous path, certain of said recesses being designated from others by circles of different color formed on the board about the recesses, analogous recesses, in playing the game, being indicated by circles of the same color, the circles at the ends of said branch paths being designated by suitable indicia and circles corresponding to indicia and circles by which certain other of the recesses in the board are designated.

1,419,075. DEVICE FOR THE DELIVERY OF TICKETS. CHARLES ROBERT PROSSER, Melbourne, Victoria, Australia. Filed Aug. 30, 1921. Serial No. 496,860. 4 Claims. (Cl. 211—8.)

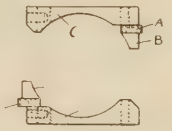
1. Improvements relating to the delivery of railway tickets and the like from storage receptacles, consisting in the combination with a ticket receptacle having a compartment adapted to accommodate a stack of tickets of a slide located at the bottom of said compartment and adapted to withdraw the tickets singly from the bottom of the stack

therein, an upstanding front plate extending across the front of the ticket receptacle at its lower end and having spaced outcuts disposed immediately above the slide, said outcuts forming rolled tongues, a hinged flap having a



transverse hinge pin bearing in said rolled tongues said flap being located at the front of said compartment immediately above the slide and a spring controlling said flap to hold it normally in closed position with its lower end adjoining the slide for the purpose set forth.

1,419,076. MAGNETO-ELECTRIC MACHINE FOR INTERNAL-COMBUSTION ENGINES. CHARLES C. PUCKETTE, Salford, England, assignor of one-half to Conner Magneto & Ignition, Limited, Stoke, Warwickshire, England. Filed May 4, 1920. Serial No. 378,878. 3 Claims. (Cl. 171—209.)

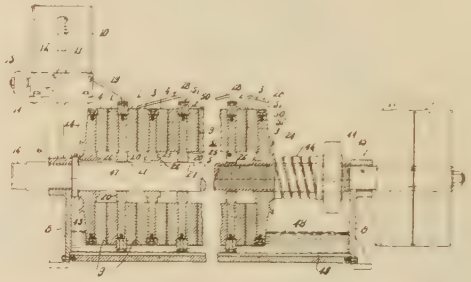


2. In a magneto ignition apparatus with pole pieces having extensions to form polar horns at the leading edges of the poles only, and shading coils placed around the polar horns to prevent the distortion of the main field flux by armature reaction and the consequent concentration of the magnetic flux at the tips of the polar extensions.

1,419,077. WARP STOP MOTION. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed May 11, 1921. Serial No. 468,533. 5 Claims. (Cl. 139—92.)

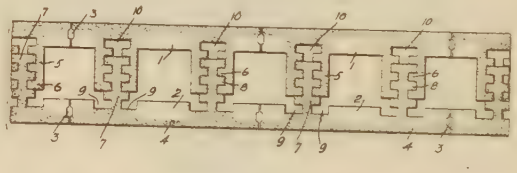
1. In a warp stop motion for looms, the combination of a detector of non-circular cross-section, a plurality of drop wires each having a wide opening through which the detector passes and in which it has a detecting movement when the drop wires are supported by normally conditioned warp threads, and each having a detector arresting opening with converging side walls the upper portion of which arresting opening is narrower than the width of the upper portion of the detector to form a lint receiving space between the top of the detector and the upper end of the opening when a drop wire fails to be supported by a warp thread.

1,419,078. BALL-LAPPING MACHINE. ALBERT F. ROCKWELL, Bristol, Conn., assignor, by mesne assignments, to Standard Steel and Bearings Incorporated, Wilmington, Del., a Corporation of Delaware. Filed Mar. 19, 1919. Serial No. 283,622. 24 Claims. (Cl. 51—130.)



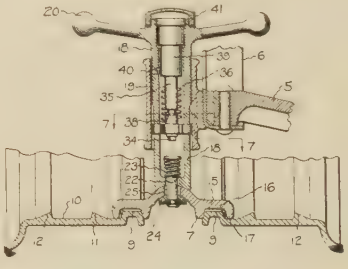
1. A ball-lapping machine comprising: a plurality of sets of relatively-rotatable members having lapping grooves along which the balls are impelled by the relative rotation of said members, means for transferring the balls from groove to groove in each set, and means for transferring the balls from one set of relatively-rotatable members to another.

1,419,079. BUILDING BLOCK. ALBERT H. ROETH, New York, N. Y. Filed May 18, 1921. Serial No. 470,553. 4 Claims. (Cl. 72—38.)



1. A pair of interlocking building blocks, interlocking devices carried by the blocks adapted to selectively interlock in various positions, whereby the blocks may be optionally locked against relative separation at various distances apart.

1,419,080. TIRE CARRIER. ERNEST W. SEAHOLM and GUY E. PARKER, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Nov. 6, 1919. Serial No. 336,123. 16 Claims. (Cl. 224—29.)



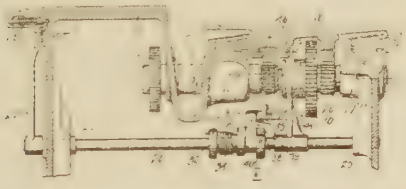
12. A tire carrier comprising a bracket having an aperture extending therethrough, a hollow member project-

able through said aperture and guided by the walls thereof for exerting holding pressure on the rim of a tire, and a lock controlled element housed within the projectable member for locking said member to the bracket.

1,419,081. CHAIN PLIERS. ROBIN ICH SHIBIYA, Omaha, Nebr. Filed Apr. 9, 1921. Serial No. 459,829. 6 Claims. (Cl. 81—15.)

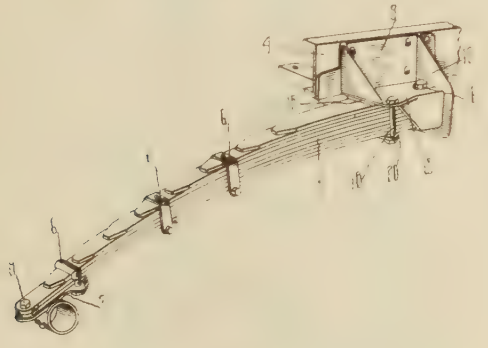
1. A chain pliers having coacting terminals on the handled members thereof adapted to engage a chain link, a link-closing head movable longitudinally on the pliers toward or from said terminals and adapted to exert closing pressure on a link, and individually operated actuating means for said head.

1,419,082. TARRY DEVICE. PAUL STONER, Waynesboro, Pa., assignor to Landis Tool Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed Nov. 18, 1920, Serial No. 424,905. Renewed Apr. 28, 1922. Serial No. 557,228. 13 Claims. (Cl. 74—98.)



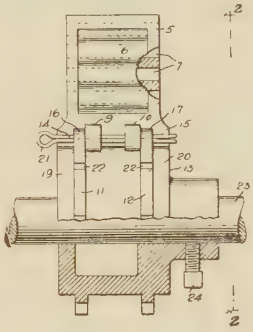
1. In combination a coupling including a member having stepped projections thereon, and a co-acting member adapted to engage the steps of such projections selectively, a slidable shifter for said coupling, said shifter having a diagonal cam-groove, and means engaging said groove to shift the one of said members relatively to the other, substantially as set forth.

1,419,083. SPRING BRACKET. ALFRED T. STURT, New York, N. Y., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Apr. 8, 1920. Serial No. 372,198. 6 Claims. (Cl. 267—41.)



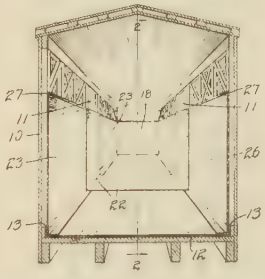
1. Fixed end supporting means for automobile springs comprising a unitary single piece bracket provided with a flange whereby it may be secured to a frame member, and a housing adapted to receive and hold the fixed end of a leaf spring; said housing having an abutment or ledge at its lower end whereby the under side of the extremity of a spring may be supported, and a second abutment at its upper end spaced apart from said first mentioned abutment and against which the upper side of a spring may bear; and bolts adapted to force the extremity of a spring downward and against said first mentioned abutment, and to force another portion of a spring spaced apart from its extremity upward and against said second mentioned abutment, whereby stresses due to the load borne by the spring are resisted by said abutments and said bolts are free from said stresses when the device is in use.

1,419,084. JACQUARD LINK AND DRUM. GEORGE C. L. TISCH, Elizabeth, N. J., assignor to Tisch Machine Tool and Die Works, Elizabeth, N. J., a Corporation of New Jersey. Filed Apr. 22, 1921. Serial No. 463,627. 6 Claims. (Cl. 66—12.)



2. In a jacquard link mechanism of the character described, a link frame having a body, said frame and body having passageways extending therethrough in parallel relationship, and a link structure extending from one end of said frame.

1,419,085. LINING FOR TRACTION VEHICLES. EDWARD CLEMENT UNSER, River Edge, N. J. Filed June 8, 1921. Serial No. 476,039. 13 Claims. (Cl. 105—423.)

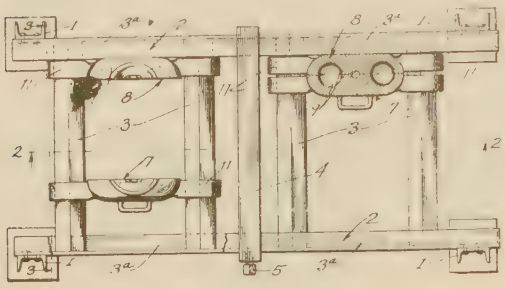


1. A car lining for grain cars and the like comprising a bottom, sides and ends of foldable material, there being continuous transverse fold lines running across the bottom and sides and dividing the same into foldable sections, and diagonal fold lines in the end sections of the sides, whereby the ends of the lining may fold down against the bottom, the sides also folding down upon the bottom, and the whole being then folded endwise, substantially as set forth.

1,419,086. MOLD SUPPORT. WILLIAM WALSH, DAVID H. MILLER, and ABNER MILLER, Los Angeles, Calif. Filed Mar. 15, 1921. Serial No. 452,502. 1 Claim. (Cl. 22—90.)

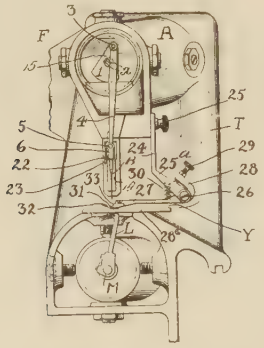
In a mold support, a base, channel iron corner uprights rigidly mounted in the base, channel iron side bars, one bar connecting the two rear uprights and the other

bar connecting the two front uprights, said side bars being secured to the uprights with their channels towards each other and pairs of angle iron rings mounted transversely with their ends in the channels of the side bars, said rings resting upon their edges with their centers



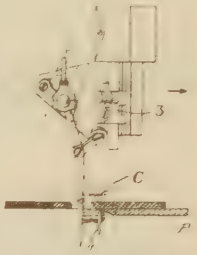
projecting upwardly, a clamp comprising a bar resting upon the side bars and having ends extending downwardly outside of the side bars, and a set screw through one end so that the rings may be positioned in the channels of the side bars and the set screw tightened to spring the side bars to grip the rings.

1,419,087. WORK-HOLDING-FOOT MECHANISM. JOHN PETER WEIS, Nyack, N. Y., assignor of one-half to Metropolitan Sewing Machine Corporation, Dover, Del., a Corporation of Delaware. Original application filed Oct. 16, 1914, Serial No. 867,005. Divided and this application filed Jan. 2, 1919. Serial No. 269,273. 1 Claim. (Cl. 112—235.)



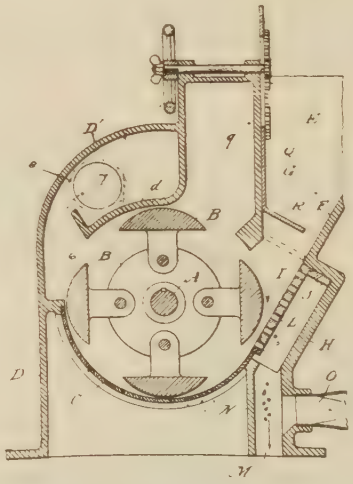
In a sewing machine, the combination with a throat plate and upper and under stitch-forming instrumentalities of a dependent bracket attachable to the machine head and having an angular under end for holding a work holding foot in operative position between the throat plate and the upper stitch-forming instrumentality; a work holding foot pivotally connected to the under end of the bracket and extending from its pivotal connection over the throat plate, at an angle to the angular under end of the bracket; a spring interposed between the angular under end portion of the bracket and the work holding foot, the spring functioning to hold the foot against the upper surface of goods between the throat plate and upper stitch forming instrumentality; and means for holding the foot in an adjusted position relatively to the throat plate and in which position the spring is ineffective to move the foot into a lower position towards the goods while the foot is upwardly movable against the tension of the spring to permit goods to be fed freely between the throat plate and the foot and to prevent the spring from effecting a clamping pressure on the goods.

1,419,088. OVERSTITCH MECHANISM. JOHN PETER WEIS, Nyack, N. Y., assignor of one-half to Metropolitan Sewing Machine Corporation, Dover, Del., a Corporation of Delaware. Original application filed Oct. 16, 1914, Serial No. 867,005. Patent No. 1,348,526, dated Aug. 3, 1920. Divided and this application filed Jan. 2, 1919. Serial No. 269,279. 4 Claims. (Cl. 112—162.)



1. The combination, in a sewing machine, of a needle actuating mechanism operatively connected with a revoluble shaft located above the throat plate; said shaft; and said throat plate provided with a hole for the needle and for a looper; a looper located above the throat plate; and a looper actuating mechanism located above the throat plate and operatively connected with said shaft for actuation of the needle actuating mechanism, whereby the shaft operates both the needle and the looper from above the throat plate; the looper having near its lower end a pair of looper jaws and also having below the under jaw, at the free end of the looper, a dependent goods separating finger; and the looper actuating mechanism comprising means to reciprocate it from above to below the goods and from below to above the goods and other means for vibrating the body of the looper above the throat plate from and towards the needle path; a work holding foot having a projecting tongue over which the stitches are formed; and a goods cutting means operative adjacent the needle path.

1,419,089. FEED GRINDER. MILTON F. WILLIAMS, St. Louis, Mo., assignor to Williams Patent Crusher & Pulverizer Co., St. Louis, Mo., a Corporation of Missouri. Filed Apr. 28, 1919. Serial No. 293,203. 9 Claims. (Cl. 83—11.)



1. A feed grinder comprising a breaker plate, having on its face rows of alternating holes and angular projections,—said projections having three sides converging upward to a blunt point at its maximum projection that

is located below the respective hole in the row above, and a casing having walls forming a chamber behind and shut in by said breaker plate, substantially as described.

1,419,090. COVERING MACHINE. ROBERT R. WILLIAMS, Roselle, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 12, 1921. Serial No. 491,882. 7 Claims. (Cl. 18—13.)

1. In a covering machine, a channel adapted to receive the article to be covered, means for applying a covering material at the extremity of the channel, and means for evacuating said channel whereby said material will be collapsed firmly against said article.

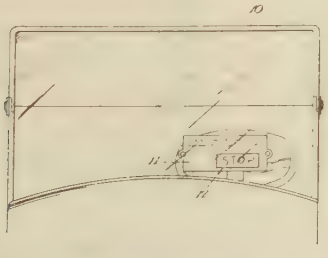
1,419,091. TROPINONE MONOCARBOXYLIC-ACID ESTERS AND PREPARATION OF THE SAME. RICHARD WILLSTÄTTER, Munich, and OTTO WOLFES and HORST MAEDER, Darmstadt, Germany. Filed Aug. 26, 1921. Serial No. 495,763. 4 Claims. (Cl. 260—25.)

1. The process of preparing tropinone mono-carboxylic acid esters by condensing salts of pure acetone di-carboxylic ester acids with succinic di-aldehyde and methylamine.

1,419,092. PREPARATION OF TROPINONE MONOCARBOXYLIC-ACID ESTERS. OTTO WOLFES and HORST MAEDER, Darmstadt, Germany. Filed Aug. 26, 1921. Serial No. 495,552. 4 Claims. (Cl. 260—25.)

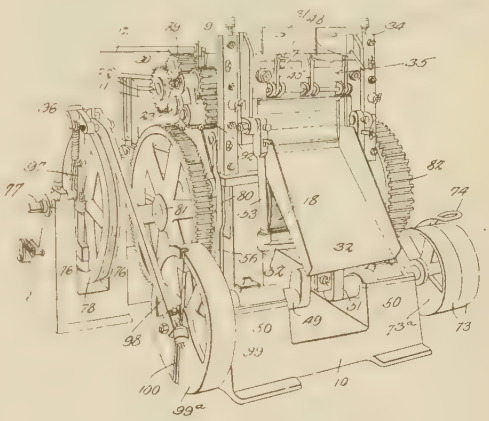
3. As new products of manufacture tropinone monocarboxylic acid esters by condensing succinic di-aldehyde with acetoacetic esters and methylamine.

1,419,093. MOTOR-VEHICLE PROTECTOR. LUDWIG R. ZEPKA, Cleveland, Ohio. Filed Apr. 22, 1921. Serial No. 463,697. 7 Claims. (Cl. 40—61.)



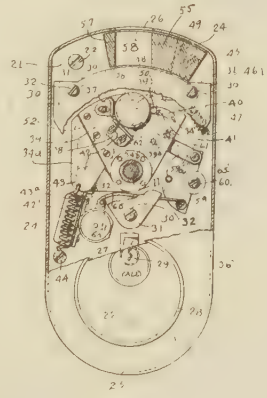
1. The combination with a motor vehicle wind shield, of a signal casing secured directly to the glass of the wind shield whereby the removal of the casing will fracture the wind shield glass, and signaling means within the casing operable for displaying a signal visible through the casing.

1,419,094. TOBACCO-CUTTING MACHINE. ALBERT W. ADT, Baltimore, Md., assignor to John B. Adt Company, Baltimore, Md., a Corporation of Maryland. Filed Dec. 6, 1920. Serial No. 428,706. 7 Claims. (Cl. 131—34.)



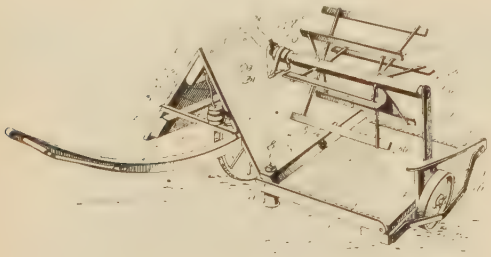
7. In a tobacco-cutting machine, the combination of a feed-drum; a feed-and-presser roller thereabove; a shaft carrying said roller; vertically-reciprocatory bearings supporting the ends of said shaft; means for returning said bearings to normal position after upward movement thereof, comprising a weighted lever, and links between said lever and said bearings; means for adjustably limiting the swing of the lever in one direction; and indicating means associated with said last-mentioned means.

1,419,095. LOCKING AND UNLOCKING MECHANISM. DONALD M. ALEXANDER, Cleveland, Ohio. Filed Mar. 28, 1921. Serial No. 456,108. 22 Claims. (Cl. 194—65.)



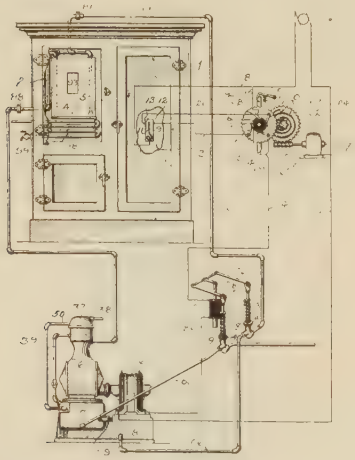
1. In mechanism of the class described, the combination with a pair of members, one movable relative to the other, and carrying respectively, a keeper and a latch, of a pair of swingable elements, connections between one of said elements and said latch, means for locking the other element, means for receiving and supporting a disk in position to make said locking means inoperative, whereby said last mentioned element can be operated, and means between said elements serving to operate the element connected to said latch when the other element is operated.

1,419,096. TOY BINDING MACHINE. PHILIP ALEXANDER, Jr., Churchville, N. Y. Filed Apr. 11, 1921. Serial No. 460,558. 3 Claims. (Cl. 46—45.)



1. A toy binder comprising a body having an opening, a beater having a shaft rotatably mounted above the body and having one end portion extending above the opening, supporting wheels for said body, a pulley turning with one of said wheels, a belt passing through the openings of said body and about said pulley and beater shaft and resilient means drawing said beater shaft away from said pulley to tighten said belt.

1,419,097. REFRIGERATING APPARATUS. FRANK W. ANDREWS, Wapakoneta, Ohio, assignor, by mesne assignments, to The Superior Refrigerating Company, Wapakoneta, Ohio, a Corporation of Ohio. Filed May 14, 1917. Serial No. 168,525. 6 Claims. (Cl. 62—3.)



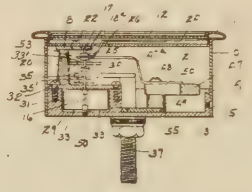
1. A refrigerating apparatus of that type wherein the refrigerating mechanism is automatically started and stopped by the action of a thermostatic control member at predetermined maximum and minimum temperatures, including a valved conduit for refrigerating media and a valved conduit for condensing media, characterized by automatic valve operating means common to the valves of both the refrigerating media and condensing media conduits.

1,419,098. SHOCK ABSORBER. ALEXANDER R. ARNOT, Los Angeles, Calif. Filed Nov. 7, 1919. Serial No. 336,389. 2 Claims. (Cl. 267—45.)

1. A shock absorber for wheeled vehicles having a spring arm, comprising a saddle adapted to be mounted upon the arm, a spring mounted upon the saddle and extended therefrom to overlap the spring arm and adapted to react against the arm when the latter flexes beyond a

given degree, and an intermediate spring member disposed between the arm and the spring and acting initially only upon said arm in the recoil of the arm.

1,419,099. METHOD OF ASSEMBLING ELECTRICAL MEASURING INSTRUMENTS. JOHN L. AXEN, Oak Park, Ill., assignor to National Gauge & Equipment Company, La Crosse, Wis., a Corporation of Wisconsin. Original application filed June 12, 1919, Serial No. 303,783. Divided and this application filed Apr. 19, 1920. Serial No. 374,823. 4 Claims. (Cl. 29—84.)



1. The method of providing bearings for a spindle, or the like, consisting in inserting a bearing in a plain cylindrical opening in a bearing carrying support, placing the spindle in position with one end thereof coincident with said inserted bearing, placing in position a bearing at the other end of said spindle, and finally adjusting the spindle in said bearings by pressing said inserted bearing to its proper position against the adjacent end of said spindle by the thrusting action of a tool.

1,419,100. ROTATABLE HAND TOOL. JOSEPH RENÉ AYOTTE, Chicago, Ill., assignor to Code Manufacturing Company, a Corporation of Illinois. Filed Nov. 10, 1921. Serial No. 514,162. 4 Claims. (Cl. 145—66.)

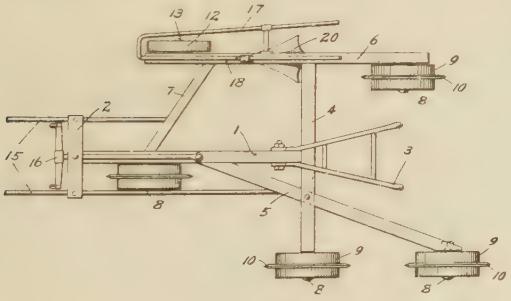
1. A hand rotatable tool comprising a non-rotatable straight jacket and shaft rotatable therein, constituting the main body part and having a clutch member at the

inner end of the shaft in combination with an angular detachable jacket; means to detachably secure the angular jacket to the straight jacket; a clutch member at one end of the angular jacket for connection with the clutch member in one end of the straight jacket; a clutch member in the other end of the angular jacket for connection with the clutch member in the other end of the straight jacket and a flexible driving connection between the clutch members of the angular jacket whereby the shaft in the straight jacket will rotate the clutch member in the angular jacket through the flexible connecting member.

1,419,101. EARTH-HANDLING APPARATUS FOR USE IN IRRIGATION. PAUL M. BANGLE, San Dimas, Calif. Filed Apr. 26, 1921. Serial No. 464,667. 6 Claims. (Cl. 37—5.)

4. Apparatus for use in irrigation comprising mound-forming means, a transverse rotary earth depositor arranged in rear of said mound-forming means and having depositor means extending at opposite sides of the mound-forming means, and manually controlled means whereby the earth depositor may be released for operation at intervals.

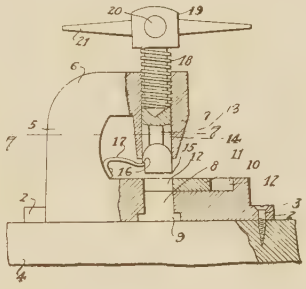
1,419,102. UNDER-TREE PLOW. THADDEUS J. BARROW, Riverside, Calif. Filed May 11, 1921. Serial No. 468,694. 4 Claims. (Cl. 97—34.)



3. In an under tree plow, a pair of parallel beams, one of which is arranged slightly in advance of the other, a transverse beam connected to the rear portion of the forward beam and to the intermediate portion of the other beam, a diagonally disposed beam connected to and extending outwardly and rearwardly from the forward beam, ribbed wheels journaled upon the parallel beams, the transversely disposed beam and the inclined beam, plow handles projecting upwardly and rearwardly from the advance parallel beam, and a plow depending from the intermediate portion of the other parallel beam.

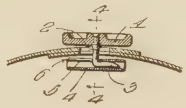
1,419,103. SAW GUMMER. REDMOND F. BARRY, Republic, Wash. Filed July 17, 1920. Serial No. 397,001. 1 Claim. (Cl. 76—30.)

A device of the class described comprising a base having a transverse opening in the lower side thereof and provided with a vertical opening in communication with the transverse opening, ears extending from said base and provided with openings, said base having a pocket formed in the upper side thereof, a tie located in said pocket and having its edges provided with openings adapted to register with the vertical opening in the base, an upstanding member extending from said base and provided with a lateral extension, a socket extending downwardly from said extension and disposed over the vertical



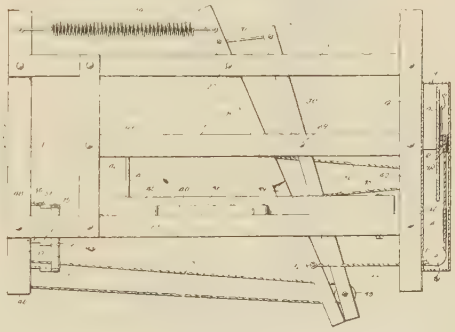
opening in said base, said socket having a threaded bore at its upper end, a punch member engaging the lower end of said socket and provided with a notch, an arched spring means for guiding said punch member in said socket secured to the upstanding member and engaging the notch in said punch member, an operating screw engaging the upper end of said socket and adapted to engage said punch member and a handle removably secured to said screw.

1,419,104. SEPARABLE FASTENER. JOHN F. BECKER, Toledo, Ohio. Filed July 21, 1921. Serial No. 486,547. 4 Claims. (Cl. 24—104.)



1. A separable fastener, comprising a head provided with a shank having a laterally directed free end, and a substantially tubular resilient retainer for said head having a restricted slot formed therein and opening through one end, said slot being enlarged at its inner end and the aforesaid shank being designed to be forced through the open end of the slot to position it in the enlarged portion with the laterally directed free end of the shank disposed beneath the unslotted portion of the tube to prevent relative rotation of the parts, yet permitting quick separation.

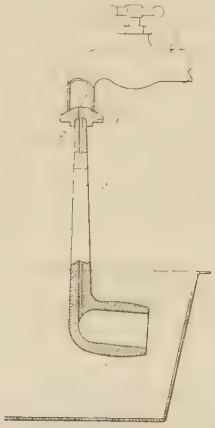
1,419,105. SIGNAL FOR MOTOR-DRIVEN VEHICLES. JASPER ALFRED BEEMER, Astoria, Oreg. Filed Sept. 7, 1921. Serial No. 499,032. 8 Claims. (Cl. 116—36.)



1. A device of the class described including a dial having a plurality of indicating characters, a finger movable over said dial and the characters thereon, a lever device pivoted intermediate the ends, a swinging bar

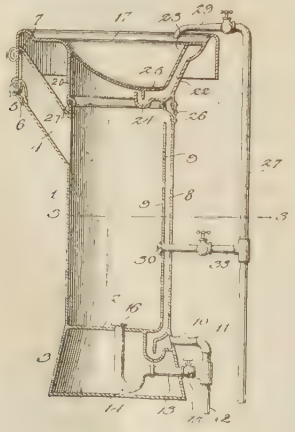
having a plurality of inclined stop teeth extending into the path of said lever device, means whereby the movement of said lever device actuates the finger of the dial, means adapted to be actuated by the main clutch mechanism of a motor driven vehicle to move said lever device to cause the same to be engaged by one of said stop teeth and to correspondingly move the finger over the dial to a point opposite one of the indicating characters thereon, means adapted to be actuated by the reverse clutch mechanism of a motor driven vehicle to move said lever device to cause the same to be engaged by the other of said stop teeth and to simultaneously move the finger of the dial to a point opposite another of the indicating characters thereon, and means adapted to be actuated by the brake actuating mechanism of a motor driven vehicle to release the levers and permit them to be returned to their first position and simultaneously permit the finger of the dial to be returned to its first position.

1,419,106. TOBACCO-PIPE CLEANER. MANTON T. BENTLEY, Palmyra, N. J.; Elizabeth Bentley executrix of said Manton T. Bentley, deceased. Filed May 7, 1921. Serial No. 467,702. 1 Claim. (Cl. 131—13.)



A device for the purpose described comprising a disk having a hole through the same, a conical face on one side, and a socket on the other side adapted to receive the tip of a mouth piece in line with said hole.

1,419,107. REPOSITORY. WALES O. BERKELEY, deceased, late of Potsdam, N. Y., by Ida M. Berkeley, Potsdam, N. Y., and Thomas T. Hill, Carmel, N. Y., administrators. Filed Sept. 4, 1920. Serial No. 408,157. 2 Claims. (Cl. 68—37.)



1. A repository comprising a receptacle open at its upper end and closed at its bottom, a hollow base beneath the bottom of the receptacle, a trap located in said base, the receptacle having an over-flow passage communicating with the trap, a supply connection having a valved branch leading to the receptacle above said bottom, and a waste pipe having branches respectively opening to the receptacle, and to said trap.

1,419,108. POST PRESERVER. JOHN E. BITTING, Los Angeles, Calif. Filed Jan. 11, 1921. Serial No. 436,496. 4 Claims. (Cl. 72—84.)

1. A preserving casing having inwardly extending radial ribs forming an axial tapering bore, and an end plate on said casing having an axial inwardly extending flange extending to the ends of said ribs, the spaces between said ribs, and the space between said flange and said casing communicating with the same, being adapted to contain a preservative.

1,419,109. NEUTRALIZATION OF OILS AND FATS. EDWARD RICHARDS BOLTON and ERNEST JOSEPH LUSH, London, England, assignors to Technical Research Works Limited, London, England. Filed Feb. 21, 1921. Serial No. 446,867. 2 Claims. (Cl. 87—12.)

1. The process of simultaneously neutralizing and deodorizing oils or fats, etc., containing free fatty acids by subjecting them in a reaction vessel, to the action of a quantity of mono-glycerides of the fatty acids separately prepared and chemically equivalent to the free fatty acids to be neutralized while heating the treated material in the reaction vessel in vacuo.

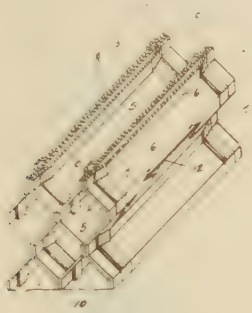
1,419,110. WIRE PACKAGE BINDER. SPENCER C. CARY, Brooklyn, N. Y., assignor to Cary Manufacturing Co., New York, N. Y., a Corporation of New York. Filed Mar. 31, 1922. Serial No. 548,500. 7 Claims. (Cl. 24—27.)

1. A wire package binder recessed and shouldered adjacent an end and producing an abutment to prevent endwise movement of the binder when put under tension.

1,419,111. RADIATOR CORE. MIKE EMMER and WILLIAM NATHANSON, Chicago, Ill. Filed Aug. 9, 1920. Serial No. 402,122. 4 Claims. (Cl. 257—130.)

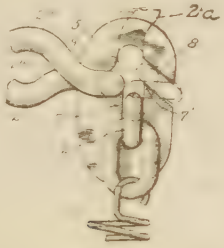
1. A radiator core comprising water tubes spaced from each other; and a co-operating distancing plate between

said tubes, there being a lateral offset adjacent the ends of said member to destroy the capillary attraction be-



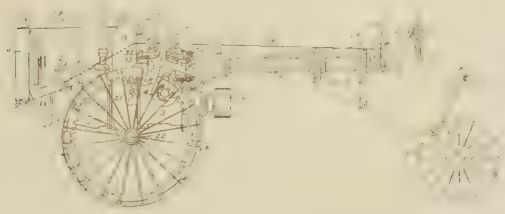
tween the contacting areas of said distancing plate and said tubes, substantially as described.

1,419,112. CONNECTING DEVICE. HENRY L. JONES, Cleveland, Ohio, assignor to The Cleveland Chain and Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 11, 1920. Serial No. 365,005. 5 Claims. (Cl. 59—85.)



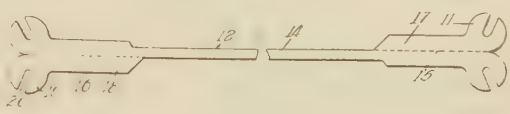
1. In devices of the character described, the combination with a linked chain, of a device formed with a slot for connecting one link of the chain to one of the remaining links thereof, said device being formed with a slot the upper end wall of which forms a seat for the bar of a chain link and adapted to receive the other link comprising the connection to dispose the adjacent connected links of the chain on opposite sides of said device, and also formed with an entrance opening through which the last named link is inserted or removed, said entrance opening extending inwardly from one edge of said device and merging with or into the said slot at a point which intercepts the bar of the first named link, whereby the latter link locks the other link in said slot.

1,419,113. TRACTOR. JOHANN FRIEDRICH MAX PATITZ, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Mar. 8, 1920. Serial No. 364,319. 24 Claims. (Cl. 180—12.)



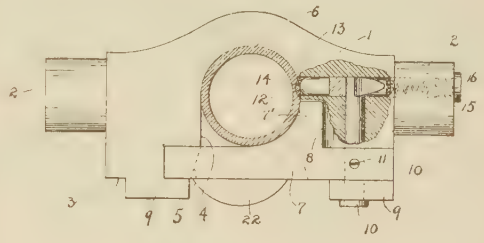
1. In a tractor, a propelling unit, an element associated with said unit and swingable laterally thereof upon a vertical pivot, a tubular draft member secured to and swinging with said element, and controlling elements for said power unit located within said tubular member.

1,419,114. ELECTRICAL FUSE. PETER J. SMITH, Chicago, Ill., assignor to Commonwealth Edison Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 13, 1919. Serial No. 276,741. 2 Claims. (Cl. 200—135.)



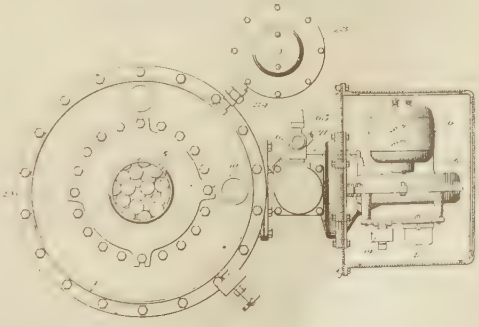
1. A flat sheet metal fuse having an intermediate portion and an end portion, the intermediate portion comprising a narrow flexible strip of single thickness of sheet metal the end portion comprising plural thicknesses of sheet metal integral with the intermediate portion, one thickness being a continuation longitudinally of the intermediate portion and the other thickness being a lateral continuation of said first continuation and being folded over upon said first continuation along a line runing longitudinally of the fuse to produce an attaching terminal for the fuse.

1,419,115. ELEVATOR. AVERY H. THOMAS, Houston, Tex. Filed Dec. 6, 1920. Serial No. 428,582. 11 Claims. (Cl. 294—90.)



1. In a device of the character described, a block having a pipe receiving opening therein, means to suspend said block, means to close said opening and to grip the pipe comprising a bar having a pivot pin at one end supported in said block, said bar fitting when closed within a slot in said block, and means to hold the said bar in elevated position comprising a spring-actuated locking pin cooperating with said pivot pin.

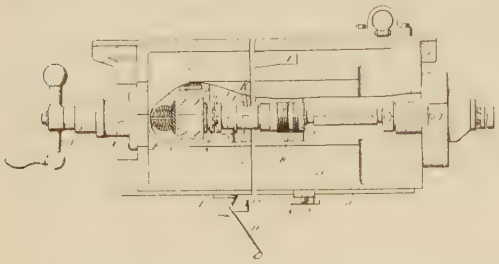
1,419,116. AUTOMATIC GAS-BURNING HEATING SYSTEM. NATHANIEL B. WALES, Boston, Mass., assignor to The Wales Company, Kalamazoo, Mich., a Corporation of Michigan. Filed Oct. 5, 1921. Serial No. 505,651. 3 Claims. (Cl. 158—109.)



1. In a heating system of the type described, a burner nozzle having an air inlet and a gas inlet, a gas supply conduit connected to said inlet provided with a controlling valve, a motor-driven blower connected to said air inlet and arranged to supply air under pressure, a disk mounted within said air inlet to permit a limited to and

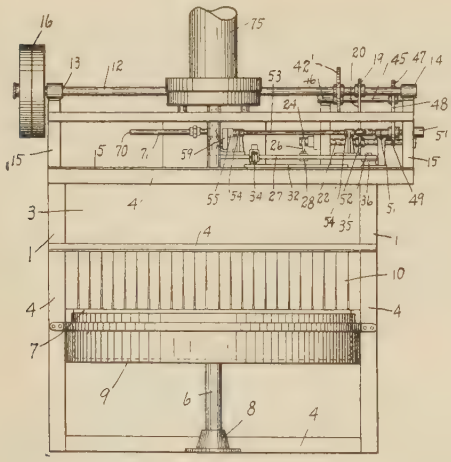
fro movement and actuated in one direction by the impingement of air thereon, said disk having a central aperture to provide a direct passage for that portion of the air having the highest velocity as it issues from the blower, and an operative connection between said disk and said valve.

1,419,117. TRIP MECHANISM FOR MACHINE TOOLS. SOL EINSTEIN, Cincinnati, Ohio, assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Nov. 8, 1919. Serial No. 336,667. 3 Claims. (Cl. 90—21.)



1. A trip mechanism for a machine-tool combining a travelling dog, a trip element actuated thereby, said trip element being rotatable about its axis and being also translatable along said axis and having a single handle adapted to effect said movements; and mechanism for advancing said dog under the control of said trip-element.

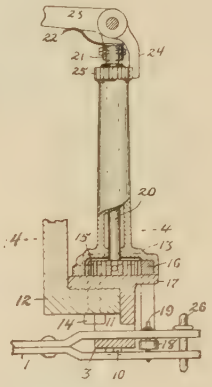
1,419,118. MACHINE FOR CLEANING CASTINGS AND THE LIKE. WILLIAM A. HEXT, Cincinnati, Ohio, assignor to Walter Macleod, Cincinnati, Ohio. Filed June 29, 1920. Serial No. 392,805. 10 Claims. (Cl. 51—15.)



1. A cleaning apparatus comprising means for supporting the articles to be treated, a blast nozzle, and means associated with said nozzle for automatically and continuously moving the latter in paths which intersect one another.

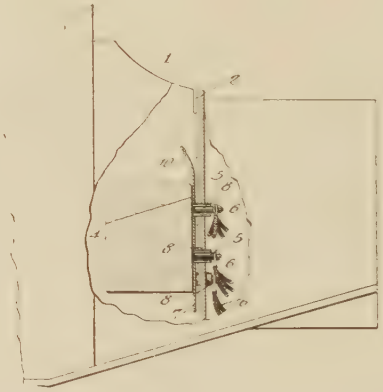
1,419,119. DRAFT RIG FOR TRACTORS. WILLIAM DALE F. IGNEY, Huntington, Ind., assignor of one-fourth to Cecil C. Igney and one-fourth to Dale M. Rupert, Roanoke, Ind., and one-fourth to Asal W. Igney, Huntington, Ind. Filed Jan. 11, 1922. Serial No. 528,467. 2 Claims. (Cl. 213—67.)

1. In a draft rig for a tractor, an anchor attachable to the tractor body ahead of its rear axle; a supporting member adapted to be positioned on the tail lug of the tractor; a draw-bar coupled at one end with the anchor and supported at its opposite end by the member; a U-



shaped rack member detachably connected with the draw-bar; an actuating member for the rack including a standard; and a pair of bolts extending through the standard, the bracket and the tail lug securing the same together.

1,419,120. COIL-BOX PROTECTOR. PRATT C. MORRIS, Thomasville, Ga., assignor to Charles W. Cooper, Thomasville, Ga. Filed May 16, 1918. Serial No. 234,978. 3 Claims. (Cl. 180—90.)

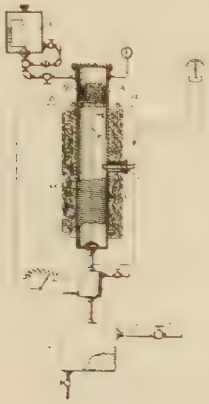


1. In combination with the coil-box and dash-board of a motor vehicle, a protector applied to the face of the coil-box between it and the dash-board and formed with nipples fitting corresponding openings in the dash-board and adapted to receive the terminals or binding posts of the coil-box.

1,419,121. MANUFACTURE OF LIGHT HYDROCARBONS AND THE LIKE. WALTER F. RITTMAN, New York, N. Y., assignor to Synthetic Hydro-Carbon Company, Pittsburgh, Pa., a Corporation of Delaware. Filed May 18, 1915. Serial No. 29,020. 8 Claims. (Cl. 196—25.)

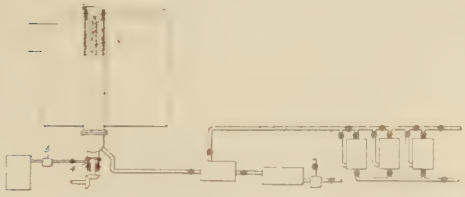
1. In the conversion of high boiling carbon oils into lower boiling hydrocarbon oils, the process which comprises passing the same downwardly through a vertical,

externally heated, unobstructed chamber under a pressure higher than atmospheric and maintained at a crack-



ing temperature, the conditions within such retort being such as to permit free fell of the introduced material therethrough.

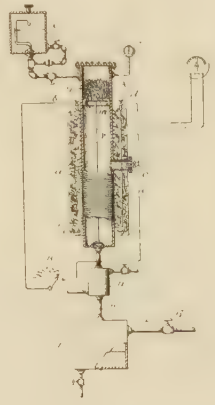
1,419,122. TREATMENT OF HYDROCARBONS. WALTER F. RITTMAN, Pittsburgh, Pa., assignor to Synthetic Hydrocarbon Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Feb. 5, 1917. Serial No. 146,720. 3 Claims. (Cl. 196—25.)



1. The process herein described of changing the high boiling hydrocarbons to lower boiling condensible hydrocarbons which consists in subjecting the hydrocarbons while in a liquid condition to such temperature and pressure as to cause a substantial cracking of the liquid, vaporizing such liquid and subjecting the vapors in a vertically moving column to temperatures higher than that employed in the liquid cracking and pressure and for such a period of time as will effect the formation of the desired low boiling condensible end product desired in substantially large quantities.

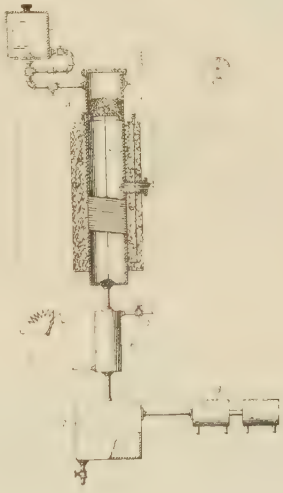
1,419,123. PROCESS FOR THE MANUFACTURE OF BENZENE, TOLUENE, AND OTHER AROMATIC HYDROCARBONS AND THE LIKE. WALTER F. RITTMAN, Pittsburgh, Pa., assignor to Synthetic Hydrocarbon Company, Pittsburgh, Pa., a Corporation of Delaware. Filed May 18, 1915, Serial No. 29,019. Renewed Dec. 18, 1917. Serial No. 207,794. 6 Claims. (Cl. 196—25.)

1. The process herein described which consists in feeding hydrocarbon fluid of the petroleum type to a substantially vertical unobstructed chamber subjecting such fluid to a vaporizing temperature at a point adjacent to the initial point of flow, subjecting the vapors while passing through the chamber to a temperature, not less than 600 degrees C. and a pressure of 60 pounds per square inch and upwards and withdrawing the vapors continuously from the opposite end of the chamber, the con-



ditions of pressure, temperature, and rate of flow being so adjusted as to promote the formation of aromatic hydrocarbons.

1,419,124. TREATMENT OF XYLENE AND OTHER SIMILAR HYDROCARBONS. WALTER F. RITTMAN, Pittsburgh, Pa., assignor to Synthetic Hydrocarbon Company, Pittsburgh, Pa., a Corporation of Delaware. Filed July 7, 1915, Serial No. 38,461. Renewed Dec. 27, 1921. Serial No. 525,048. 5 Claims. (Cl. 260—168.)

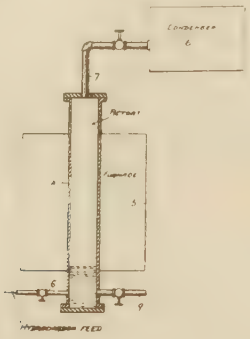


5. The process of converting high boiling aromatic hydrocarbons into low boiling aromatic hydrocarbons which comprises passing the vapors of such high boiling aromatic hydrocarbons through a heated zone maintained at a cracking temperature between 600° and 900° C. and a pressure absolute not exceeding two hundred pounds per square inch, and condensing the so treated vapors.

1,419,125. METHOD OF TREATING HYDROCARBONS. WALTER F. RITTMAN, Pittsburgh, Pa., assignor to Synthetic Hydrocarbon Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Aug. 3, 1917, Serial No. 184,231. Renewed Feb. 1, 1922. Serial No. 533,408. 5 Claims. (Cl. 196—25.)

1. The method herein described for treating hydrocarbons which consists in applying a vaporizing heat to the

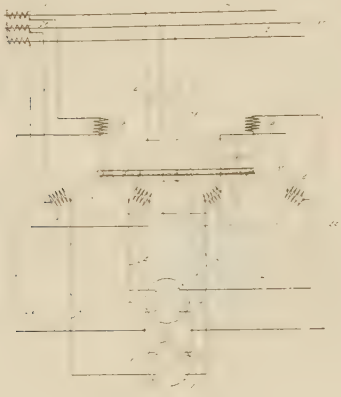
portions of a body of liquid oil at and adjacent to the upper surface thereof, other portions of the liquid being



at a lower temperature, subjecting the vapors arising from such heated portions to a cracking temperature, and segregating the products resulting from such treatment.

REISSUES.

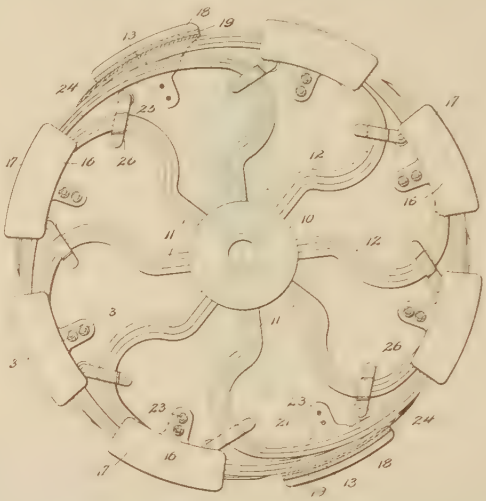
15,370. VOLT-AMPERE METER. DONALD J. ANGUS, Indianapolis, Ind. Filed Nov. 12, 1921. Serial No. 514,787. Original No. 1,342,081, dated June 1, 1920, Serial No. 319,765, filed Aug. 25, 1919. 22 Claims. (Cl. 171—309.)



1. In combination, a meter having voltage and current windings, a transformer having relatively movable primary and secondary members of which at least the primary member is wound to produce a rotating magnetic field, the winding of the secondary member being connected to the voltage winding of said meter and the winding of the primary member being arranged for voltage connection across a polyphase circuit, and a motor device mechanically connected to said transformer and having two relatively movable members one of which is arranged to be excited in definite phase relationship with the primary of said transformer and the other of which is arranged to be excited in definite phase relationship with the current supplied to the current winding of the meter.

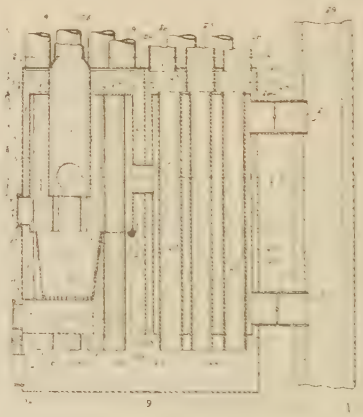
15,371. SPRING WHEEL. WILLIAM JAKOB BEISEL, Port Richmond, N. Y. Filed Nov. 1, 1921. Serial No. 512,063. Original No. 1,378,516, dated May 17, 1921, Serial No. 235,681, filed May 20, 1918. 8 Claims. (Cl. 152—29.)

1. A spring wheel for vehicles comprising a hub and a series of leaf spring spokes secured thereto having radial inner portions and being bent in the plane of the wheel at points uniform distances from the hub and the outer portions from those points being bent on gradual curves until they pass back across the radial lines of the inner portions with the outer ends tapering in thickness and



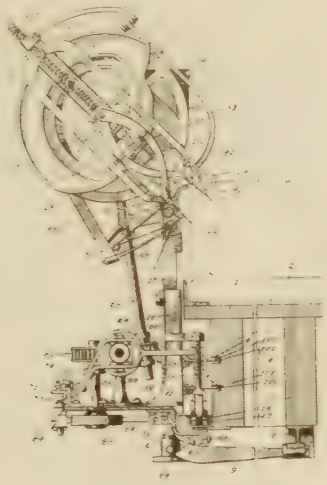
the radii of the curves gradually increasing until the tip ends of adjacent spokes rest on each other forming a practically continuous circular rim and adapted to move radially and circumferentially on each other without breaking the continuity of the rim.

15,372. HOT-AIR FURNACE. DEWITT A. BRUNETT, Minneapolis, Minn. Filed Nov. 14, 1921. Serial No. 515,132. Original No. 1,392,888, dated Oct. 4, 1921, Serial No. 358,813, filed Feb. 16, 1920. 15 Claims. (Cl. 126—109.)



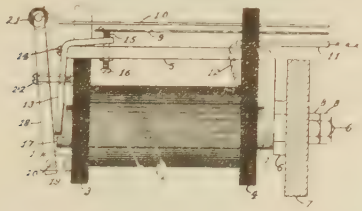
1. In a hot air furnace, the combination with an outer primary casing and a secondary outer casing, said two casings having a common base air chamber, of primary and secondary drums respectively within said primary and secondary casings spaced therefrom at the sides, top and bottom, and affording, respectively, primary and secondary combustion chambers, the said two combustion chambers being connected for the passage of hot gases from the former to the latter, primary and secondary air pockets formed, respectively, over the tops of said primary and secondary combustion chambers, primary and secondary hot air tubes extending, respectively, through said primary and secondary combustion chambers and connecting with the air chamber in the base and with the air pockets, and primary and secondary hot air pipes extending, respectively, from said primary and secondary air pockets.

15,373. MATTRESS-ROLL-FORMING MACHINE. JOSEPH W. DROLL, Oakland, Calif., assignor to Droll Patents Corporation, a Corporation. Filed Mar. 30, 1921. Serial No. 457,049. Original No. 1,300,140, dated Apr. 8, 1919, Serial No. 215,010, filed Jan. 25, 1918. 16 Claims. (Cl. 112—3.)



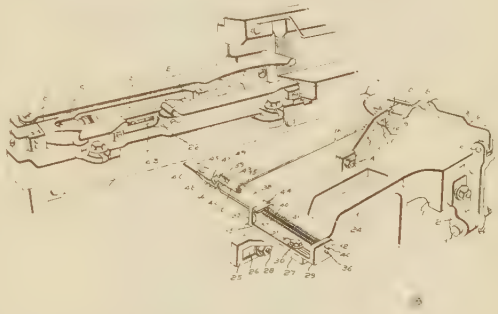
16. The combination with a mattress roll forming machine of a pair of pivotally mounted parallel packing needles; means for moving the needles into the top and side of a mattress and adjacent the corner thereof; means for rotating the needles on their pivotal points into packing position to form a roll; means for sewing the roll so formed and means for withdrawing said needles longitudinally directly from said packing position and along the lines of their longitudinal axes before returning said needles to parallel position, to prevent said stuffing from being removed from said formed roll, by said needles.

15,374. RELAY. FREDERICK R. PARKER, Chicago, Ill. Filed Mar. 18, 1920. Serial No. 366,971. Original application filed Feb. 19, 1904, Serial No. 194,392. Divided and application filed May 29, 1914, Serial No. 841,729. Patented May 15, 1917, No. 1,226,617. Original No. 1,259,901, dated Mar. 19, 1918. 45 Claims. (Cl. 200—163.)



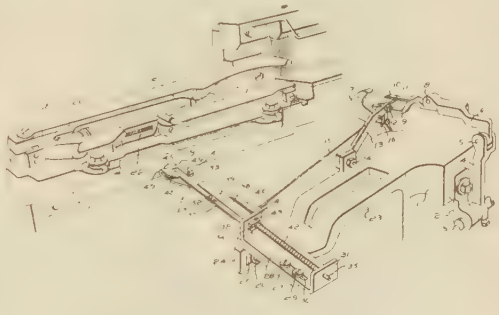
41. In a relay, the combination with a substantially U-shaped magnet structure, of an angularly-shaped armature member pivoted between the ends thereof and having one arm extending in front of a pole of the magnet structure and adapted to be attracted thereto and the other arm extending rearwardly along the magnet structure, switch members disposed longitudinally of the said magnet structure and adapted to engage each other at points of contact near their forward ends, said points of contact being outside of said magnet structure and said rearwardly-extending arm of the armature member, the latter having means for operating at least one of the said switch members, the said means engaging the switch member which is operated thereby to the rear of the said point of contact thereof.

15,375. FEELER MECHANISM FOR LOOMS. ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Apr. 13, 1922. Serial No. 553,198. Original No. 1,392,805, dated Oct. 4, 1921, Serial No. 379,266, filed May 6, 1920. 12 Claims. (Cl. 139—85.)



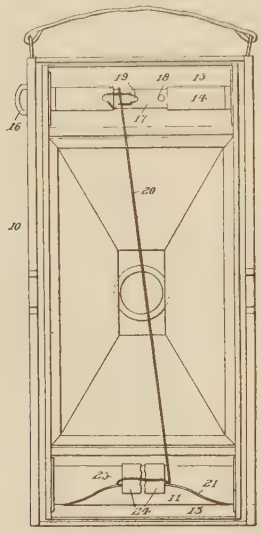
1. In a feeler mechanism for looms, the combination of a feeler carrier mounted for movement toward and from the front of the loom, a feeler mounted on the carrier for movement in a direction longitudinally of the shuttle and held from such movement by engagement with the filling on a detecting beat until substantial exhaustion thereof, a gear having a tooth engagement with the feeler, a rack engaged with the gear, a spring acting upon the rack and tending to turn the gear and move the feeler longitudinally of the shuttle under the frontward pressure upon the feeler on a detecting beat, and means for effecting replenishment of filling when the feeler is moved longitudinally of the shuttle.

15,376. FEELER MECHANISM FOR LOOMS. ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Apr. 13, 1922. Serial No. 553,199. Original No. 1,392,806, dated Oct. 4, 1921, Serial No. 379,267, filed May 6, 1920. 11 Claims. (Cl. 139—85.)



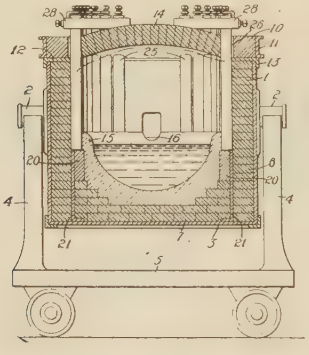
1. In a feeler mechanism for looms, the combination of a feeler carrier mounted for movement toward and from the front of the loom, a rack which is fixed relative to the feeler carrier, a feeler that is mounted on the feeler carrier for bodily movement frontward relative thereto and for movement in a direction longitudinally of the shuttle and which is held from such movements by engagement with the filling on a detecting beat until the filling is substantially exhausted, and rack teeth on the feeler which engage the fixed rack on the feeler carrier.

15,377. ATTACHER AND AUTOMATIC SEALER FOR CAMERA FILMS. ELMER E. THRASHER, South Cumberland, Md. Filed Apr. 17, 1922. Serial No. 554,240½. Original No. 1,411,982, dated Apr. 4, 1922, Serial No. 314,777, filed Aug. 1, 1919. 10 Claims. (Cl. 95—9.)



1. A roll film comprising a spool, a film strip wound on the spool, a seal normally closing the free beginning end of the film strip, a pull cord secured at one end to said end of the strip and having portions thereof looped around a part of the seal and extending beneath the remainder of the seal, whereby the unwinding of the cord is adapted to automatically break the seal.

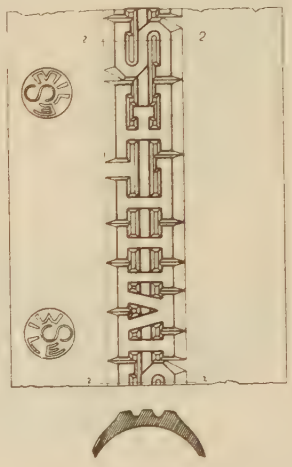
15,378. ELECTRIC FURNACE. HAROLD G. WEIDENTHAL, Cleveland, Ohio, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 25, 1920. Serial No. 368,685. Original No. 1,304,425, dated May 20, 1919, Serial No. 262,780, filed Nov. 16, 1918. 23 Claims. (Cl. 204—64.)



1. In an electric furnace, a refractory casing having upright walls, a refractory bath in the lower part of said casing, an arcuate conductor located between said bath and the casing wall, said conductor being located entirely beneath the bank of said bath, a plurality of resistance elements arranged in approximately upright position around the interior of said casing having their lower ends resting on said conductor, and electrical connections to the upper ends of said resistance elements.

DESIGNS.

61,026. TIRE. HIRAM J. ANDRUS, Akron, Ohio. Filed Jan. 19, 1921. Serial No. 438,505. Term of patent 14 years.

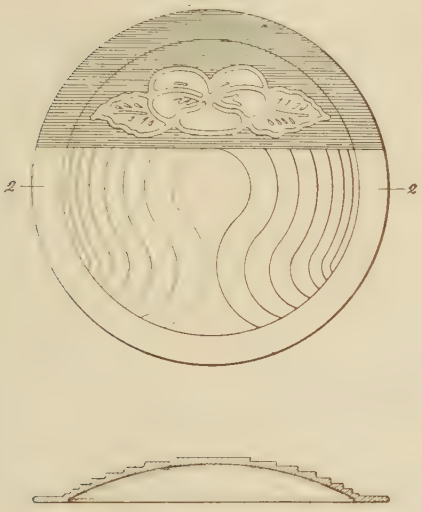


The ornamental design for a tire substantially as shown.

61,027. ELECTRICAL RECEPTACLE. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 26, 1920. Serial No. 426,661. Term of patent 7 years.

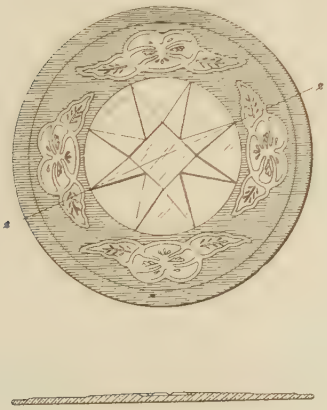
The ornamental design for an electrical receptacle substantially as shown.

61,028. LENS. ISAAC BERKOWITZ, New York, N. Y. Filed Sept. 16, 1921. Serial No. 501,202. Term of patent 7 years.



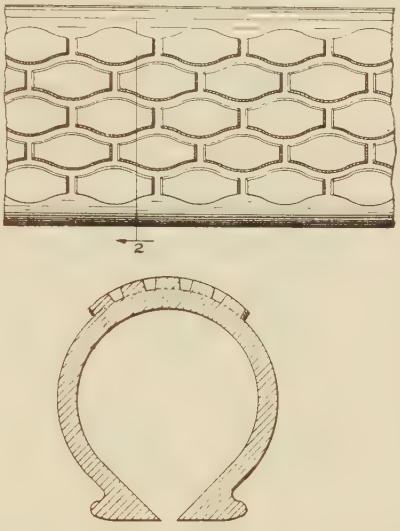
The ornamental design for a lens, as shown.

61,029. LENS. ISAAC BERKOWITZ, New York, N. Y. Filed Sept. 16, 1921. Serial No. 501,203. Term of patent 7 years.



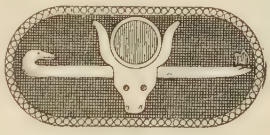
The ornamental design for a lens, as shown.

61,030. ELASTIC VEHICLE TIRE. ARTHUR L. BREITENSTEIN, Akron, Ohio. Filed Dec. 20, 1919. Serial No. 346,395. Term of patent 3½ years.



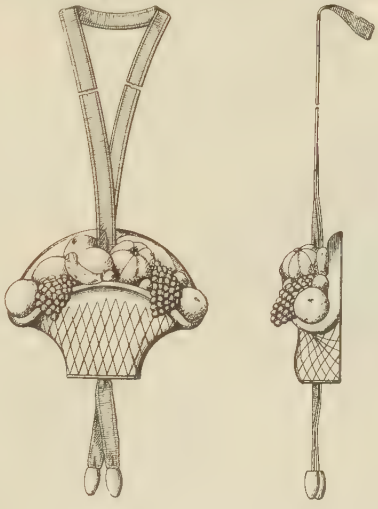
The ornamental design for an elastic vehicle tire as shown.

61,031. EMBLEM, BUTTON, BROOCH, FOB, OR SIMILAR ARTICLE. GEORG ROBERT BROCKMANN, San Francisco, Calif., assignor to Supreme Pyramid Ancient Egyptian Order of Sciots, San Francisco, Calif., a Fraternal Society. Filed May 12, 1921. Serial No. 469,059. Term of patent 14 years.



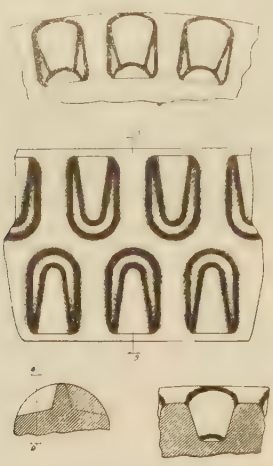
The ornamental design for an emblem, button, brooch, fob, or similar article as shown.

61,032. PENDANT. EVERETT CODY, Washington, D. C. Filed Dec. 30, 1921. Serial No. 526,064. Term of patent 14 years.



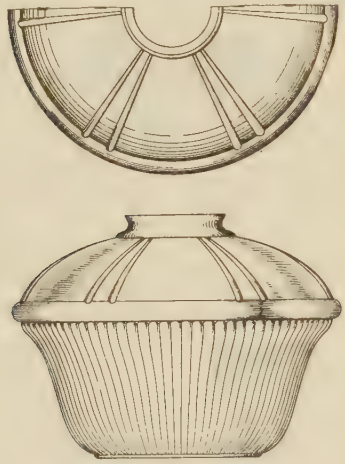
The ornamental design for a pendant, as shown.

61,033. TIRE. BENJAMIN DAHL, Minneapolis, Minn. Filed Mar. 20, 1920. Serial No. 367,495. Term of patent 3½ years.



The ornamental design for a tire as shown.

61,034. GLOBE FOR LIGHTING FIXTURE. THURE E. DAHL, New York, N. Y. Filed May 31, 1921. Serial No. 473,931. Term of patent 7 years.

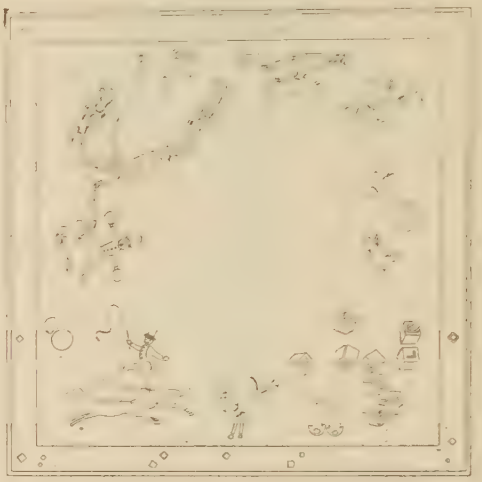


The ornamental design for a globe for lighting fixture, as shown.

61,035. RING. CHARLES J. DIEGES, New York, N. Y., assignor to Dieges & Clust, New York, N. Y., a Corporation of New York. Filed Apr. 3, 1922. Serial No. 1,513. Term of patent 14 years.

The ornamental design for a ring, as shown.

61,036. HANDKERCHIEF, NAPKIN, OR SIMILAR ARTICLE OF MANUFACTURE. JAMES HARDEN, New York, N. Y., assignor to The Acheson Harden Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 17, 1921. Serial No. 515,963. Term of patent 3½ years.

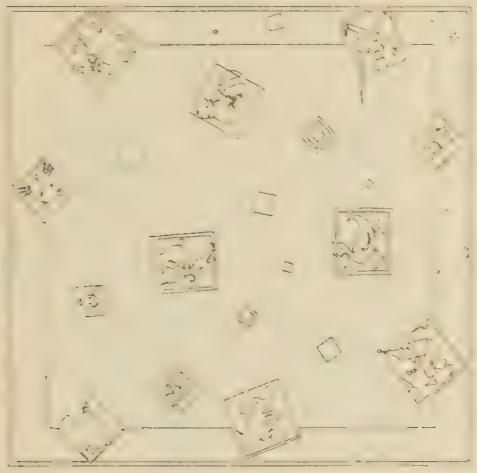


The ornamental design for a handkerchief, napkin, or similar article of manufacture substantially as shown and described.

61,037. HANDKERCHIEF, NAPKIN, OR SIMILAR ARTICLE OF MANUFACTURE. JAMES HARDEN, New York, N. Y., assignor to The Acheson Harden Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 17, 1921. Serial No. 515,964. Term of patent 3½ years.

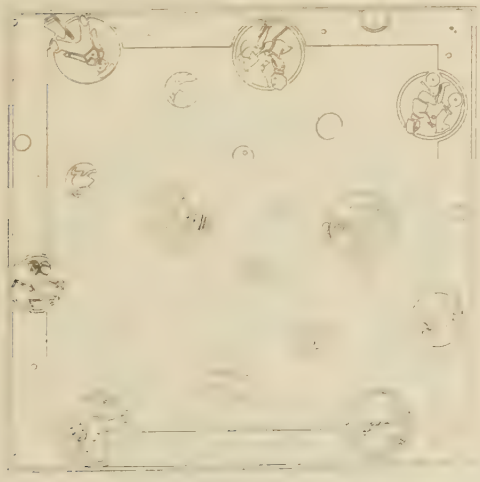
The ornamental design for a handkerchief, napkin, or similar article of manufacture substantially as shown and described.

61,038. HANDKERCHIEF, NAPKIN, OR SIMILAR ARTICLE OF MANUFACTURE. JAMES HARDEN, New York, N. Y., assignor to The Acheson Harden Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 17, 1921. Serial No. 515,965. Term of patent 3½ years.



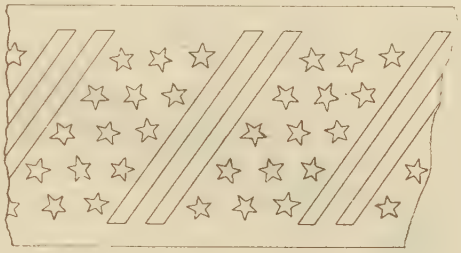
The ornamental design for a handkerchief, napkin, or similar article of manufacture substantially as shown and described.

61,039. HANDKERCHIEF, NAPKIN, OR SIMILAR ARTICLE OF MANUFACTURE. JAMES HARDEN, New York, N. Y., assignor to The Acheson Harden Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 17, 1921. Serial No. 515,966. Term of patent 3½ years.



The ornamental design for a handkerchief, napkin, or similar article of manufacture substantially as shown and described.

61,040. ORNAMENTAL PAPER. CLARA H. HAVEMEYER, Springfield, Mass., assignor to Package Paper and Supply Corporation, a Corporation of Massachusetts. Filed Oct. 19, 1921. Serial No. 508,877. Term of patent 3½ years.

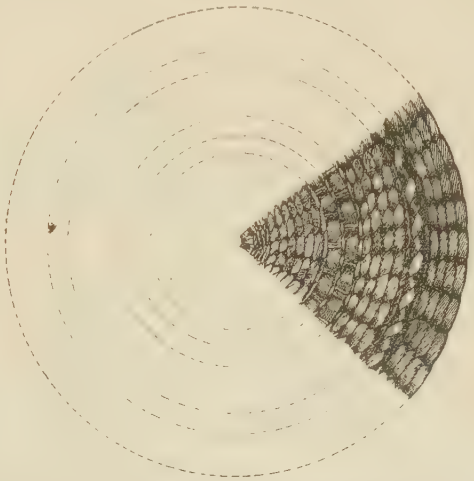


The ornamental design for an ornamental paper, as shown.

61,041. WRITING PEN. MARTIN JONES, San Diego, Calif. Filed May 27, 1921. Serial No. 473,155. Term of patent 3½ years.

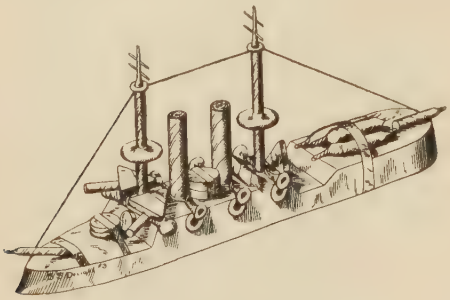
The ornamental design for a writing pen, as shown.

61,042. RUBBER MAT. HENRY JOSEPH, Milwaukee, Wis., assignor to Joseph Sanitary Rug Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed [illegible] 21, 1921. Serial No. 524,024. Term of patent 7 years.



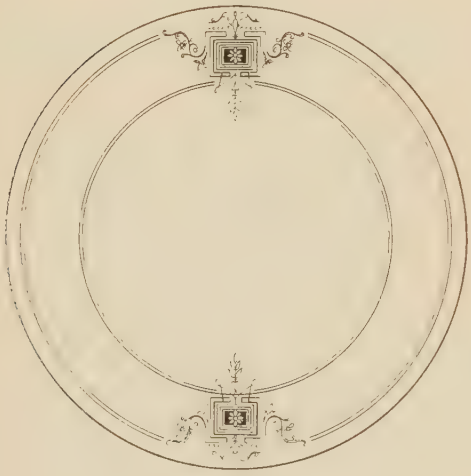
The ornamental design for a rubber mat, as shown and described.

61,043. CANDY BOAT. IDA KAUFMAN, Atlantic City, N. J. Filed Nov. 4, 1920. Serial No. 421,777. Term of patent 3½ years.



The ornamental design for a candy boat, as shown.

61,044. PLATE OR SIMILAR ARTICLE. CHARLES KLENK, Englewood, N. J., assignor to The Palm Brothers Company, New York, N. Y. Filed Oct. 7, 1921. Serial No. 506,216. Term of patent 3½ years.



The ornamental design for a plate or similar article, as shown.

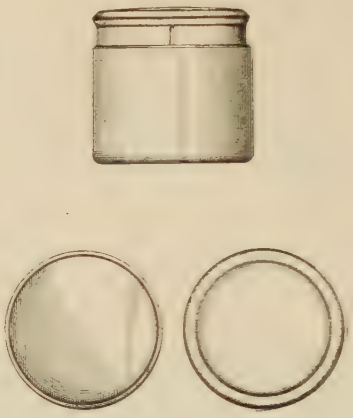
61,045. ORNAMENT FOR A RADIATOR CAP. STEPAN DE KOSENKO, New York, N. Y., assignor to Sterling Bronze Company, New York, N. Y., a Corporation of New York. Filed Nov. 14, 1921. Serial No. 515,135. Term of patent 7 years.

The ornamental design for an ornament for a radiator cap, as shown.

61,046. GRATING. WALTER H. LOWN, Jersey City, N. J., assignor to Kerlow Steel Flooring Co., Jersey City, N. J., a Corporation of New Jersey. Filed Apr. 18, 1921. Serial No. 462,444. Term of patent 14 years.

The ornamental design for a grating as shown.

61,047. JAR. JOHN E. MACE, New York, N. Y. Filed Apr. 25, 1921. Serial No. 464,455. Term of patent 14 years.

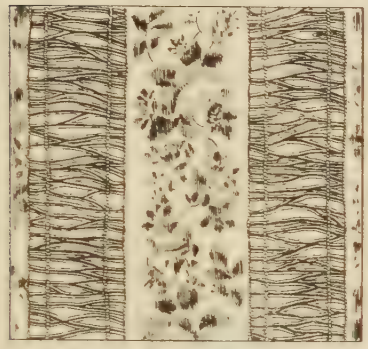


The ornamental design for a jar, as shown.

61,048. FRATERNAL EMBLEM, MEDALLION, BADGE, BUTTON, PIN, OR ARTICLE OF SIMILAR NATURE. LOUIS J. MALONE, Riverside, N. J. Filed Jan. 24, 1922. Serial No. 341. Term of patent 14 years.

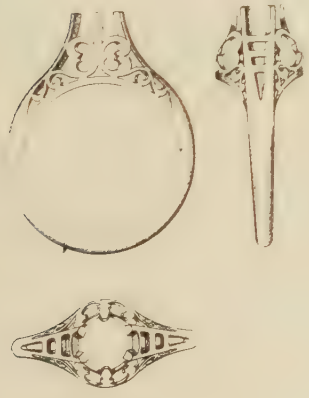
The ornamental design for a fraternal emblem, medallion, badge, button, pin, or article of similar nature, substantially as shown.

61,049. MATTRESS TICKING OR SIMILAR ARTICLE OF MANUFACTURE. EDWARD G. MEYERS, Passaic, N. J., assignor to M. Binkovitz & Son, New York, N. Y., a Firm composed of Morris Binkovitz and Reuben Binkovitz. Filed Jan. 5, 1922. Serial No. 43. Term of patent 3½ years.



The ornamental design for mattress ticking or similar article of manufacture, as shown.

61,050. FINGER RING. FRANK MILHENING, Evanston, Ill., assignor to J. Milhening, Inc., Chicago, Ill., a Corporation of Illinois. Filed Feb. 13, 1922. Serial No. 691. Term of patent 7 years.

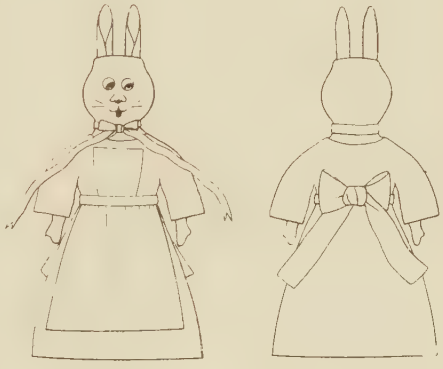


The ornamental design for a finger ring as shown.

61,051. DISPLAY SHAPE OF AN ARTICLE OF CLOTHING. AUSTIN N. OPPENHEIM, Baltimore, Md., assignor to Oppenheim, Oberndorf & Co., Inc., Baltimore, Md., a Corporation of Maryland. Filed Mar. 26, 1921. Serial No. 455,994. Term of patent 14 years.

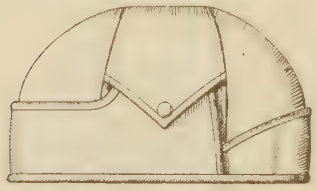
The ornamental design for a display shape of an article of clothing substantially as shown and described.

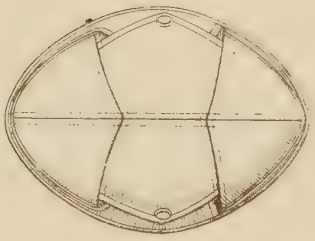
61,052. DOLL. EDITH M. SHAWE, Huntington, N. Y. Filed Jan. 21, 1922. Serial No. 300. Term of patent 7 years.



The ornamental design for a doll substantially as shown.

61,053. CAP. ABRAHAM SLOTOROFF, Brooklyn, N. Y., assignor to Lena Slotoroff, Brooklyn, N. Y. Filed Jan. 16, 1922. Serial No. 207. Term of patent 7 years.





The ornamental design for a cap, as shown.

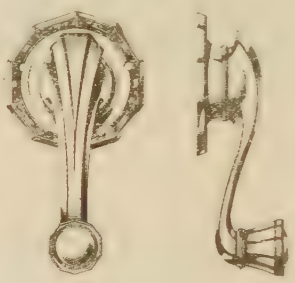
61,054. RING. ALBERT VERBER, New York, N. Y. Filed Apr. 28, 1921. Serial No. 465,231. Term of patent 7 years.

The ornamental design for a ring as shown.

61,055. RING. ALBERT VERBER, New York, N. Y. Filed Apr. 28, 1921. Serial No. 465,232. Term of patent 7 years.

The ornamental design for a ring as shown.

61,056. AUTOMOBILE WINDOW HANDLE. FREDERICK W. WALKER, Royal Oak, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 8, 1920. Serial No. 415,698. Term of patent 7 years.



The ornamental design for an automobile window handle, as shown.

61,057. HANDLE. FREDERICK W. WALKER, Royal Oak, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 8, 1920. Serial No. 415,699. Term of patent 7 years.

The ornamental design for a handle or similar device, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 6, 1922.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 113,167. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. R. ROACH & Co., Hart, Mich. Filed Sept. 13, 1918.

Particular description of goods.—Canned Vegetables.
Claims use since 1907.

Ser. No. 119,085. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SNIDER & CAZEL, Wilmette, Ill. Filed May 31, 1919.

The pictorial representation of the goods is disclaimed apart from other features of the mark. The body of the label is blue in color.
Particular description of goods.—Fudge.
Claims use since May 1, 1919.

Ser. No. 124,008. (CLASS 39. CLOTHING.) LA GRACE DRESS PANEL MANUFACTURING CO., Penns Grove, N. J. Filed Oct. 20, 1919.

La Grace

Particular description of goods.—Dress Panels.
Claims use since Aug. 20, 1919.

Ser. No. 124,622. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RUECKHEIM BROS. & ECKSTEIN, Chicago, Ill., assignor to The Cracker Jack Co., Peoria, Ill., a Corporation of Illinois. Filed Nov. 6, 1919.

BIG BEN BAR

No claim is made to the exclusive use of the word "Bar" apart from the mark shown in the drawing.
Particular description of goods.—Chocolate Bars.
Claims use since Oct. 14, 1914.

Ser. No. 126,940. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE LUNKENHEIMER COMPANY, Cincinnati, Ohio. Filed Jan. 8, 1920.

AMERICA'S BEST
LUNKENHEIMER
QUALITY
SINCE 1862

No claim is made for the words "America's Best" and "Since 1862" apart from their use and arrangement in combination with each other in said mark.
Particular description of goods.—Pop Valve Mufflers; Steam and Air Whistles; Steam Boiler Oil Injectors; Injectors of Feed-Water for Steam Boilers; Ejectors for Transferring Liquids; Gasoline Strainers for Engines; Strainers for Water Intake of Injectors and Ejectors; Mechanical Primers for Gasoline Engines and Parts of These Primers; Priming Cups for Gasoline Engines; Mechanical, Hydrostatic, and Gravity-Feed Lubricators; Oil Pumps; Sight-Feeds, Sight-Feed Valves, Drip Valves, Wiper Cups and Drip-Troughs as Parts for Machinery Lubrication, and the Attachment for Holding These Parts; Grease Cups; Oil Cups; Gauge Cocks.
Claims use since Dec. 1, 1919.

Ser. No. 127,150. (CLASS 17. TOBACCO PRODUCTS.) WARD P. ROBERTS, Milford, Mass. Filed Jan. 14, 1920.

Denman Thompson

The trade-mark as shown is a facsimile of the signature of the late Denman Thompson.
Particular description of goods.—Cigars.
Claims use since about Nov. 1, 1909.

Ser. No. 128,382. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) ATLANTIC COMB WORKS, New York, N. Y. Filed Feb. 14, 1920.

ACWALITE

Particular description of goods.—Hair, Cloth, Flesh, and Nail Brushes.
Claims use since September, 1918.

Ser. No. 129,385. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EMILY HALLMAN, Chicago, Ill. Filed Mar. 8, 1920.

Emeline's

Particular description of goods.—Almond Meal, Foot Powder, Shampoo Powder, Hair Tonic, Preparation for Rough and Chapped Hands, Face Powder, Rouge, Hair Gloss Commonly Known as Brilliantine, Cuticle Cream, Bleaching Cream, Tissue Builder or Massage Preparation, and a Nonsaponaceous Preparation for Cleansing the Skin.
Claims use since July, 1911.

Ser. No. 136,123. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) METALLURGISCHE GESELLSCHAFT RICHARD WALTER & CO., Düsseldorf, Germany. Filed Aug. 14, 1920.

Thermisilid

Particular description of goods.—Castings Made from Acid-Resisting Alloys.
Claims use since Oct. 10, 1919.

Ser. No. 137,889. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. S. MERRELL DRUG COMPANY, St. Louis, Mo. Filed Oct. 4, 1920.

Particular description of goods.—Lump Alum, Powdered Alum, Copper Sulphate, Powdered Boric Acid, Cream Tartar, Epsom Salts, and Senna Leaves.
Claims use since Aug. 20, 1920.

Ser. No. 137,971. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STANARD TILTON MILLING CO., St. Louis, Mo. Filed Oct. 5, 1920.

PROEZA

Particular description of goods.—Wheat Flour.
Claims use since about the year 1898.

Ser. No. 139,326. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SWIFT AND COMPANY, Chicago, Ill. Filed Nov. 6, 1920.

Scandia

Particular description of goods.—Corned Beef.
Claims use since June 1, 1905.

Ser. No. 139,504. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN D. ANTONOPULOS, doing business as United Nut Stores, New York, N. Y. Filed Nov. 11, 1920.

No claim is made to the words "Nut Stores" apart from the mark as shown.
Particular description of goods.—Walnuts, Brazils, Almonds, Filberts, Cashew, Lychee, Pistachio, Pignolias, Paradise, Coconut, Philippine Nuts, Pecans, Chestnuts, Hickory, Peanuts, in the Shell, Shelled, Salted, Roasted, or Paste; Fruits—Namely, Figs, Dates, and Currants, Preserved, Dried, and in their Natural State.
Claims use since Sept. 18, 1920.

Ser. No. 142,404. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) OVINGTON BROS. COMPANY, New York, N. Y. Filed Jan. 18, 1921. Under ten-year proviso.

OVINGTON'S

Particular description of goods.—Nonelectric Oil Lamps, Candlesticks, and Candelabra Made of Wood and Base Metals and Glass.
Claims use since Jan. 1, 1895.

Ser. No. 142,537. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. C. SINCLARE CO., New York, N. Y. Filed Jan. 20, 1921.

"MENO"

Particular description of goods.—Chemical Rust Remover.
Claims use since January, 1920.

Ser. No. 143,230. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE THOMAS COMPANY, Philadelphia, Pa. Filed Feb. 5, 1921.

QUICKURE

Particular description of goods.—Antileak Compound.
Claims use since Dec. 13, 1920.

Ser. No. 143,481. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BROWN, YOUNG & CO. INC., New York, N. Y. Filed Feb. 12, 1921.

BONDED

Particular description of goods.—Dehydrated Whole Eggs, Dehydrated Egg Yolk, and Dehydrated Egg Albumen.
Claims use since about July 1, 1918.

Ser. No. 143,503. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOE LOWE CO. INC., New York, N. Y. Filed Feb. 12, 1921.

JO-LO CERTIFIED EGGS

No claim is made to the words "Certified Eggs" apart from the features of the mark.
Particular description of goods.—Dehydrated Whole Eggs, Dehydrated Egg Yolk and Dehydrated Egg Albumen.
Claims use since about Jan. 1, 1914.

Ser. No. 143,575. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CARL W. SWEARINGEN, doing business as The Citroline Company, Los Angeles, Calif. Filed Feb. 14, 1921.

Citroline

Particular description of goods.—Face Creams and Lotions.
Claims use since the 22d day of January, 1921.

Ser. No. 143,728. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) WESTERN CARTRIDGE COMPANY, East Alton and Springfield, Ill. Filed Feb. 17, 1921.

NUBLEND

Particular description of goods.—Powder and Ammunition Containing the Same.
Claims use since about 1908.

Ser. No. 143,875. (CLASS 39. CLOTHING.) WALTON N. MOORE DRY GOODS CO., San Francisco, Calif. Filed Feb. 21, 1921. Under ten-year proviso.

El Dorado

Particular description of goods.—Knitted Hosiery and Underwear Made of Cotton, Wool, Fiber, and Silk and Combinations Thereof.

Claims use since August, 1892.

Ser. No. 143,990. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MILLERS FALLS COMPANY, Millers Falls, Mass. Filed Feb. 24, 1921.

MILLERS FALLS TOOLS
SINCE 1868

Particular description of goods.—Angular Bit Stocks, Angular Drilling Machines, Polishing Heads, Bits and Augers, Auger Handles; Augers, Hollow; Bench Drills, Hand Drills, Breast Drills, Chain Drills, Push Drills, Ratchet Drills, Bench Hooks, Pulp Borers, Borers—Sill, Boring Machines, Braces—Corner; Braces, Drill; Braces, Bit; Bit Extensions, Butcher-Saw Frames, Carving Tools, Chucks, Coping Saws, Hand-Drill Points, File Handles, Fret-Saw Frames, Fret-Saw Machines, Glass Cutters, Valve Grinders, Hack-Saw Blades, Hack-Saw Frames, Hack-Saw Machines, Hand vises, Jack Screws, Jeweler-Saw Frames, Kitchen Saws, Lathes, Miter Boxes, Miter Planers, Nail Pullers, Piercing Saws, Screw Drivers, Rim Wrenches, Turning Saws, Screw-Driver Bits, Soldering Sets, Spokeshaves, Spoke Trimmers, Tool Holders, Bench Vises, Band Saws, Assembling Tools, Bushing Drivers, Center Finders, Cotter-Pin Pullers, Nail Sets, Center Punches, Pin Punches, Prick Punches, Drive Punches, Wood-Screw Punches, Machinists' Scribers, Spring-Leaf Openers, Tap Wrenches, Auto Passenger Jacks, and Auto-Truck Jacks, Fret-Saw Blades, Jeweler-Saw Blades, Coping-Saw Blades.

Claims use since Feb. 4, 1921.

Ser. No. 144,484. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TRU-BLU BISCUIT COMPANY, Spokane, Wash. Filed Mar. 8, 1921.

"Wellington"

Wellington is the name of a celebrity—namely, name of the Duke of Wellington.

Particular description of goods.—Cakes — Namely, Cookies or English-Style Biscuit.

Claims use since Sept. 25, 1915.

Ser. No. 144,649. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHARLES K. THAU, New York, N. Y. Filed Mar. 11, 1921.

La Vision Net

No claim made to the word "Net" apart from mark shown on drawing.

Particular description of goods.—Hair Nets.

Claims use since Mar. 1, 1917.

Ser. No. 144,925. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) R. H. MACY & CO., INC., New York, N. Y. Filed Mar. 18, 1921.

MAYFLOWER

Particular description of goods.—Sheets and Pillow-cases.

Claims use since Mar. 11, 1921.

Ser. No. 144,997. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) WILHELM ADLER, Karlsbad, Czecho-Slovakia. Filed Mar. 21, 1921.

SORBOID

Particular description of goods.—Absorbent Charcoal in its Raw State to be Used for Various Purposes.

Claims use since July 12, 1920.

Ser. No. 144,998. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) WILHELM ADLER, Karlsbad, Czecho Slovakia. Filed Mar. 21, 1921.

SANASORBEN

Particular description of goods.—Absorbent Charcoal in its Raw State to be Used for Various Purposes.

Claims use since May 27, 1920.

Ser. No. 145,056. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CANDY PRODUCTS CORPORATION, Chicago, Ill. Filed Mar. 22, 1921.

The words "Milk Chocolate" do not form a part of the registration sought apart from the mark shown.
Particular description of goods.—Candy.
Claims use since Apr. 14, 1920.

Ser. No. 145,847. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NAUMKEAG STEAM COTTON CO., Salem, Mass. Filed Apr. 7, 1921.

CENTURY

Particular description of goods.—Sheets and Pillow-cases.
Claims use since 1905.

Ser. No. 145,904. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN H. MCKEON, trading as J. H. McKeon, Ph. G. Better Health Products, Holyoke, Mass. Filed Apr. 8, 1921.

The lining on the drawing indicates brown.
Particular description of goods.—Laxatives.
Claims use since January, 1919.

Ser. No. 146,215. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. P. HOOD & SONS, INC., Boston, Mass. Filed Apr. 15, 1921.

CHERRY HILL

The words "Cherry Hill."
Particular description of goods.—Milk, Cream, Butter, Cheese, and Ice Cream.
Claims use since Jan. 1, 1900.

Ser. No. 146,225. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. A. MORRISSEY COMPANY, Boston, Mass. Filed Apr. 15, 1921.

RE-NU-YU

Trade-mark "Re-Nu-Yu."
Particular description of goods.—Medicinal Tonics for Bronchial Troubles, Colds, Coughs, and General Debility.
Claims use since Jan. 16, 1920.

Ser. No. 146,779. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) "PEROLIN" FABRIKATIONSGESELLSCHAFT M. B. H., Vienna, Austria. Filed April 26, 1921.

Perolin

Particular description of goods.—Spray Diffusers for Fluids.
Claims use since March, 1906.

Ser. No. 146,994. (CLASS 17. TOBACCO PRODUCTS.) EUGENE J. SCHAEFER, Dayton, Ohio, executor of the estate of Joseph J. Schaefer, deceased, doing business as Joseph J. Schaefer. Filed Apr. 29, 1921. Under ten-year proviso.

LA COSTA

Particular description of goods.—Cigars.
Claims use since Sept. 8, 1891.

Ser. No. 147,541. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THOMAS S. WITHERSPOON, doing business as The Spoon Products, Denver, Colo. Filed May 10, 1921.

THE Spoon PRODUCTS

No claim is made to the word "Product" appearing on the drawing apart from the mark.
Particular description of goods.—Carbon Remover, Which Carbon Remover is a Chemical Fluid Preparation.
Claims use since about Apr. 15, 1921.

Ser. No. 147,927. (CLASS 39. CLOTHING.) THE LAY & WAY CO., New York, N. Y. Filed May 19, 1921.

IDEAL

Particular description of goods.—Underwaists and Body Waists Made of Textile Fabric, Corset Waists, Corsets, Brassières, and Girdles.

Claims use since 1896.

Ser. No. 147,939. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) G. FRED. OBRECHT, trading as P. Fred'k Obrecht & Son, Baltimore, Md. Filed May 19, 1921.

Applicant disclaims all reading matter as part of the trade-mark except the words "Temptor" and "P. Fred'k Obrecht & Son."

Particular description of goods.—Temptor Pure Wheat Flour and Corn Meal.

Claims use since June 1, 1920.

Ser. No. 148,032. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PROGRESSIVE GROCERY STORES, INC., New York, N. Y. Filed May 21, 1921.

Progressive

Particular description of goods.—Sugar, Butter and Substitutes, Cocoa, Chocolates, Candy, Coffee and Substitutes, Wheat Flour, Rye Flour, Corn Meal, Nuts in Their Natural State; Fresh and Dried Beans, Peas, and Fruit; Dog Cakes, Eggs, Molasses and Sirups, Macaroons and Noodles, Seeds for Food Purposes, and Teas.

Claims use since about May, 1915.

Ser. No. 148,532. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CORNO MILLS COMPANY, St. Louis, Mo. Filed June 2, 1921.

PAW NEE

Particular description of goods.—Cereal Food Products—to wit, Rolled Oats for Human Consumption and Feeds for Horses, Mules, Cattle, and Poultry.

Claims use on cereal food products—to wit, rolled oats for human consumption, since May, 1898, and on feeds for horses, mules, cattle, and poultry since November, 1910.

Ser. No. 148,533. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CORNO MILLS COMPANY, St. Louis, Mo. Filed June 2, 1921.

Particular description of goods.—Cereal Food Products—to wit, Rolled Oats for Human Consumption and Feeds for Horses, Mules, Cattle, and Poultry.

Claims use on cereal food products—to wit, rolled oats for human consumption, since May, 1898, and on feeds for horses, mules, cattle, and poultry since November, 1910.

Ser. No. 148,833. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CADILLAC PRODUCE COMPANY, Cadillac, Mich. Filed June 8, 1921.

Particular description of goods.—Creamery Butter.

Claims use since June, 1917.

Ser. No. 148,839. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ERNEST HAASE, doing business as The Bunny Coffee Company, Brooklyn, N. Y. Filed June 8, 1921.

No claim is made to the word "Coffee" apart from the mark as shown. The trade-mark is printed in brown and blue, as indicated by the lining on the drawing.

Particular description of goods.—Prepared Coffee Extracts.

Claims use since Sept. 1, 1920.

Ser. No. 148,935. (CLASS 39. CLOTHING.) GRAF-ROSEN CO., New York, N. Y. Filed June 10, 1921.

No claim is made to the word "Karacter" apart from the mark as shown in the drawing

Particular description of goods.—Men's Hats and Caps.

Claims use since May 1, 1921.

Ser. No. 149,792. (CLASS 39 CLOTHING.) ALBERT NECKWEAR MANUFACTURING COMPANY, Dallas, Tex. Filed June 29, 1921.

Particular description of goods.—Neckties, Cravats, and Neckscarfs.

Claims use since June 13, 1921

Ser. No. 149,850. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) EASTERN ALUMINUM COMPANY, Boston, Mass. Filed June 30, 1921.

Trade-mark "Signet."

Particular description of goods.—Aluminum Utensils, Especially Coffeepots, Percolating Coffeepots, Teapots, Teakettles, Double Boilers, Cake Pans, Convex Kettles, Convex Saucepans, Combination Cookers, Steam Cookers, Pie Plates, Biscuit Pans, Bread Pans, Pudding Pans, Saucepans, Washbasins, Preserving Kettles, Casseroles, Roasters, Fry Pans, Water Pitchers, Dish Pans, Sirup Pitchers, Colanders, Sink Strainers, Bread Raisers, Ladles, and Dippers.

Claims use since Mar. 14, 1921.

Ser. No. 149,967. (CLASS 39. CLOTHING.) LEVY & MARCUS, New York, N. Y. Filed July 2, 1921.

INTERBILT

Particular description of goods.—Neckties and Scarfs.

Claims use since Apr. 13, 1921.

Ser. No. 149,975. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PITTSBURGH IMPORTING & MANUFACTURING CO., Pittsburgh, Pa. Filed July 2, 1921.

Particular description of goods.—Preserves and Cheese.

Claims use since July, 1919.

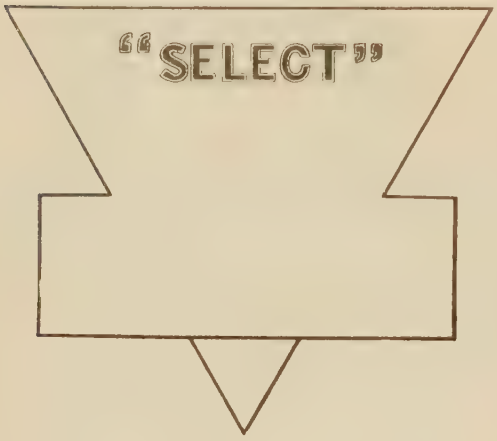
Ser. No. 150,110. (CLASS 39. CLOTHING.) KENILWORTH MANUFACTURING CO. INC., New York, N. Y. Filed July 7, 1921.

KENWORTH

Particular description of goods.—Blouses, Bloomers, Skirts, Knickers, Underbloomers, Overalls, Aprons, and Suits for Females.

Claims use since 1916

Ser. No. 150,146. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE HARTMANN FOOD PRODUCT CO. INC., New York, N. Y. Filed July 8, 1921.



No claim is made to the exclusive use of the word "Select" apart from the other features of the mark shown in the drawing.

Particular description of goods.—Almond Paste.

Claims use since May 21, 1921.

Ser. No. 150,540. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KLATTE COFFEE COMPANY, Terre Haute, Ind. Filed July 18, 1921.

HOME BREW

Particular description of goods.—Coffee.

Claims use since Jan. 15, 1921.

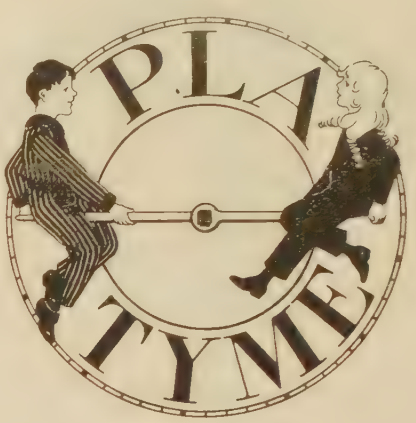
Ser. No. 150,977. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, San Francisco, Calif. Filed July 26, 1921.

PEARL

Particular description of goods.—Heating and Illuminating Oils—Namely, Petroleum Illuminating Oil, Coal Oil, and Kerosene.

Claims use since 1884.

Ser. No. 151,070. (CLASS 39. CLOTHING.) JOSEPH M. THUMAN, Buffalo, N. Y. Filed July 28, 1921.



Particular description of goods.—Children's Rompers and Playsuits, Blouses, and Girls' Dresses for Outer Wear.

Claims use since July 1, 1921.

Ser. No. 151,189. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) U. S. CARBURETOR CO. INC., New York, N. Y. Filed July 30, 1921.

SIMPSON FLEXECO "30"

Particular description of goods.—Carburetors.

Claims use since July 21, 1921.

Ser. No. 151,481. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) REMINGTON ARMS COMPANY, INC., Bridgeport, Conn.; Ilion, N. Y.; Swanton, Vt.; New York, N. Y. Filed Aug. 5, 1921.

PY-REM-ITE

Particular description of goods.—Pocketknives and Parts Thereof.

Claims use since Apr. 13, 1921.

Ser. 151,532. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BARTON & CO., Seattle, Wash. Filed Aug. 8, 1921.

Particular description of goods.—Meat and Dairy Products—Namely, Fresh Lamb, Fresh Mutton, Fresh Veal, Fresh Pork, Fresh Beef, Bacon, Bacon Back, Ham, Boiled Ham, Fresh Pork Sausage, and Lard.
Claims use since Jan. 1, 1908.

Ser. No. 151,785. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE CINCINNATI FROG AND SWITCH CO., Cincinnati, Ohio. Filed Aug. 15, 1921.

Particular description of goods.—Switches and Switch Stands.
Claims use since July 7, 1921.

Ser. No. 151,818. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM J. BRISTOL, doing business as The Colonial Pretzel Company, Alexandria, Va. Filed Aug. 16, 1921.

No claim is made to the word "Pretzel" apart from the other features of the mark.
Particular description of goods.—Pretzels.
Claims use since May 9, 1921.

Ser. No. 151,883. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MALLINSON BROS., West Salem, Ill. Filed Aug. 17, 1921.

NU. I. D.

Particular description of goods.—Wheat Flour, Hard-Wheat Flour, Pastry Flour, Hard and Soft Wheat Blended Flour, Cake Flour, and Bran.
Claims use since July 7, 1921.

Ser. No. 151,919. (CLASS 38. PRINTS AND PUBLICATIONS.) LEONA A. KRAG, Chicago, Ill. Filed Aug. 18, 1921.

Jean Prescott Adams

Particular description of goods.—Nom de Plume on Newspaper and Magazine Articles Prepared by Me on the Subject of Domestic Science.
Claims use since May 19, 1916.

Ser. No. 151,979. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELMER L. BALLEW, doing business as The Lite Lunch Company, Chicago, Ill. Filed Aug. 20, 1921.

"Lunch Stick"

Particular description of goods.—Pastry Goods, Both Baked and Cooked.
Claims use since July 10, 1920.

Ser. No. 152,031. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE NICHOLS CANDY COMPANY, Indianapolis, Ind. Filed Aug. 22, 1921.

BASE HITS

Particular description of goods.—Candy, Commonly Known as Penny Goods.
Claims use since December, 1920.

Ser. No. 152,056. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE IMPERIAL FLOUR MILLS COMPANY, Wichita, Kans. Filed Aug. 22, 1921.

The representation of a crown and the word "Flour" are disclaimed.

Particular description of goods.—Wheat Flour, Graham Flour, and Corn Meal.

Claims use since June 20, 1921.

Ser. No. 152,163. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CONSOLIDATED RENDERING CO., Boston, Mass. Filed Aug. 25, 1921.

BANNER

Particular description of goods.—Oleo Oil for Shortening Purposes and Use in the Manufacture of Butterine and Deomargarine.

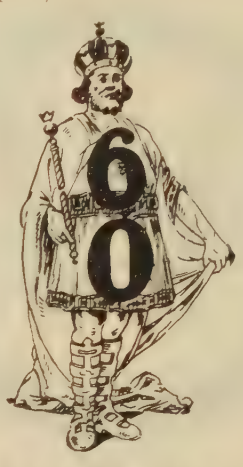
Claims use since 1908

Ser. No. 152,449. (CLASS 39. CLOTHING.) SEATTLE CAP MANUFACTURING CO., Seattle, Wash. Filed Aug. 31, 1921.

Particular description of goods.—Caps and Hats for Men, Women, and Children.

Claims use since Jan. 1, 1908

Ser. No. 152,532. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FERDINAND F. BUHNER, doing business as The Buhner Fertilizer Company, Seymour, Ind. Filed Sept. 3, 1921.

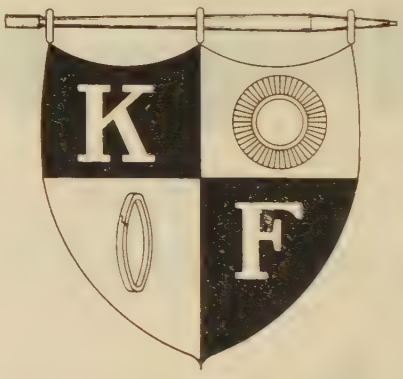


KING 60

Particular description of goods.—Digester Tankage, Used as a Food for Hogs and Animals.

Claims use since Mar. 1, 1921.

Ser. No. 152,624. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KANOUSE & FOOTE, Oakland, Calif. Filed Sept. 6, 1921.



Particular description of goods.—Bearings (Solid, Ball and Roller), Pistons, Piston Pins, Wrist Pins, Fan-Pulley Pins, Gears, Explosion-Engine Valves, and Machinery Bushings.

Claims use since May 12, 1920.

Ser. No. 152,720. (CLASS 39. CLOTHING.) FRANKLIN SIMON & CO. INC., New York, N. Y. Filed Sept. 8, 1921.

CARMOOR

Particular description of goods.—Men's and Boys' Furnishings, Undergarments, and Clothing—Namely, House Coats, Waistcoats, Bath Robes, Smoking Robes, Smoking Jackets, Drawers, Pyjamas, Dress Shirts, Undershirts, Nightshirts, Union Suits, Bathing Suits, Swimming Suits, Dressing Gowns, Sweaters, Mufflers, Collars, Gloves, Hosiery, Overcoats, Raincoats, Dress Suits, Golf Suits, Hunting Suits, Riding Suits, Tuxedo Suits, Walking Suits, Sack Suits, Trousers, Hats, and Caps Made Out of Textile Material, and Gloves, Sweaters, Mufflers, Bathing Suits,

Swimming Suits, Drawers, Undershirts, Hats, and Caps Made Out of Knitted Material; and for Women's, Girls', and Misses' Furnishings, Undergarments, and Clothing Namely, Dresses, Corsets, Tailored Suits, Walking Suits, Sport Suits, Golf Suits, Riding Suits, Negligees, Skirts, Nightgowns, Petticoats, Bodices, Chemises, Drawers, Combinations, Bath Robes, Shirt Waists, Bathing Suits, Dressing Gowns, Sweaters, Mufflers, Hosiery, Raincoats, Sport Coats, Hats, Caps, and Coats Made Out of Textile Material, and Dresses, Corsets, Tailored Suits, Walking Suits, Sport Suits, Negligees, Golf Suits, Riding Suits, Skirts, Nightgowns, Petticoats, Bodices, Chemises, Drawers, Combinations, Bath Robes, Shirt Waists, Bathing Suits, Dressing Gowns, Sweaters, Mufflers, Hosiery, Hats, and Caps Made Out of Knitted Material, and for Men's, Women's, Boys', and Girls' Shoes, Boots, Slippers, Leggings, Puttees, Made Out of Leather, Rubber, Canvas, Buckskin, or Linen or Composition of Similar Materials.

Claims use since Mar. 25, 1916.

Ser. No. 152,891. (CLASS 39. CLOTHING.) HERZOG & KRAMER, New York, N. Y. Filed Sept. 13, 1921.

Applicant disclaims all the verbal matter and the representation of the goods apart from the mark shown on the drawing.

Particular description of goods. Bath Robes.

Claims use since Jan. 1, 1921.

Ser. No. 153,123. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ADOLFO BESSON, Los Lunas, N. Mex. Filed Sept. 20, 1921.

The Marvelous Blood Purifier

No claim being made to the words "The Marvelous Blood Purifier" apart from mark in drawing. The portrait is that of applicant.

Particular description of goods.—Preparation for the Treatment of Blood Diseases.

Claims use since Aug. 22, 1921.

Ser. No. 153,193. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) J. WISS & SONS CO., Newark, N. J. Filed Sept. 21, 1921. (Under ten-year proviso.)

WISS

Particular description of goods.—Shears, Scissors, Snips, Clippers, Razors, Razor Blades.

Claims use since 1848.

Ser. No. 153,631. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) J. WISS & SONS CO., trading as R. Heinisch Sons Works, Newark, N. J. Filed Oct. 1, 1921. (Under ten-year proviso.)

HEINISCH

Particular description of goods.—Shears, Scissors, Snips, Clippers, Razors, Razor Blades.

Claims use since 1825.

Ser. No. 153,911. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ART METAL TOY COMPANY, New Brunswick, N. J. Filed Oct. 10, 1921.

AMTCO

Particular description of goods.—Toys—Namely, Soldiers, Horses, Mules, Wild Animals, Indians, Cowboys, Trees, Bushes, Cows, Sheep, Pigs, Chickens, Dogs, Cats, Birds, Automobiles, Railway Trains, Locomotives, Railroad Devices, Guns, Wagons, Sleighs, Skates, Hockey Sticks, Pogo Sticks, Checker and Chess Boards, Miniature Chairs, Tables, Beds, Bureaus, and Other Household Toy Furniture.

Claims use since Sept. 1, 1921

Ser. No. 154,142. (CLASS 39. CLOTHING.) GOLDENBERG'S, Washington, D. C. Filed Oct. 15, 1921.

Chamotex

Particular description of goods.—Fabric Gloves.

Claims use since July 1, 1921.

Ser. No. 154,148. (CLASS 39. CLOTHING.) M. W. LOWENSTEIN & CO., INC., New York, N. Y. Filed Oct. 15, 1921.

MILLS REGINA

Particular description of goods.—Neckwear—viz, Neckties, Cravats, and Mufflers.

Claims use since about Sept. 1, 1902.

Ser. No. 154,174. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AUNT NELLIE'S FARM KITCHEN, Hartford, Wis. Filed Oct. 17, 1921.

Aunt Nellie's

Garden

The word "Garden" does not form a part of the registration sought apart from the mark shown in the drawing.

Particular description of goods.—Canned Peas and Canned Corn.

Claims use since September, 1920.

Ser. No. 154,270. (CLASS 39. CLOTHING.) FREDERICK HERMAN, doing business as Fred Herman Mfg. Co., Seattle, Wash. Filed Oct. 18, 1921.

Applicant hereby disclaims the exclusive right to the word "Highland" alone outside of the other features of the mark.

Particular description of goods.—Misses' Outer Skirts.

Claims use since Sept. 23, 1921.

Ser. No. 154,315. (CLASS 39. CLOTHING.) LITTLE GODDESS DRESS CO., INC., New York, N. Y. Filed Oct. 19, 1921.

Little Lady Fauntleroy

Consisting of the words "Little Lady Fauntleroy."

Particular description of goods.—Outer Clothing for Girls, in One, Two, and Three Piece Garments.

Claims use since Oct. 1, 1921.

Ser. No. 154,332. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ROBERT A. SUFFERN, New York, N. Y. Filed Oct. 19, 1921.

Particular description of goods.—Cotton Piece Goods.

Claims use since June 1, 1921.

Ser. No. 154,429. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BARG & FOSTER CANDY CO., Milwaukee, Wis. Filed Oct. 22, 1921.

Particular description of goods.—Chocolate-Covered Nut Rolls.

Claims use since June 25, 1921.

Ser. No. 154,492. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE EUCLID CANDY COMPANY, Cleveland, Ohio. Filed Oct. 24, 1921.

BETTY BAR

No claim being made to the word "Bar" apart from the mark shown.

Particular description of goods.—Candy.

Claims use since June, 1919.

Ser. No. 154,498. (CLASS 39. CLOTHING.) FRANK & CO., Nashville, Tenn. Filed Oct. 24, 1921.

NORINK

Particular description of goods.—Collars.

Claims use since Oct. 1, 1921.

Ser. No. 154,536. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JANE B. SMITH, doing business as Jane B. Smith, Chicago, Ill. Filed Oct. 24, 1921.

JANE-ANNE
HOME-AID

The vertical color lines on the drawing indicate the color red. The word "Home-Aid" is disclaimed except in association with the other features of the mark.

Particular description of goods.—Salad Dressing, Foods, and Ingredients of Foods.

Claims use since on or about Oct. 1, 1921.

Ser. No. 154,569. (CLASS 39. CLOTHING.) THE RITE FORM CORSET CO., INC., New York, N. Y. Filed Oct. 25, 1921.

RITE-FORM

Particular description of goods.—Corsets

Claims use since July, 1916.

Ser. No. 154,799. (CLASS 39. CLOTHING.) KAPLAN, SCHEUER & DOYNE, New York, N. Y. Filed Oct. 31, 1921.

No claim being made to the representation of the cap on the drawing apart from the mark shown thereon.

Particular description of goods.—Hats and Caps.

Claims use since Oct. 24, 1921.

Ser. No. 154,870. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FEDERAL GROCERY CO., Los Angeles, Calif. Filed Nov. 1, 1921.

Rock Bottom

Particular description of goods.—Canned Fish; Canned Vegetables—viz, Tomatoes, Peas, and Corn; Canned Fruits—viz, Apricots, Pineapples, and Peaches; Spices, Peanut Butter, Honey, Food-Flavoring Extracts, Vinegar, Salad Oil, Olives, Mayonnaise, Jellies, and Fruit Preserves.

Claims use since Dec. 15, 1917.

Ser. No. 154,901. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VIRDEN PACKING COMPANY, Oakland, Calif. Filed Nov. 1, 1921.

Grizzly Peak

Particular description of goods.—Canned Fruits and Canned Vegetables.

Claims use since Aug. 5, 1921.

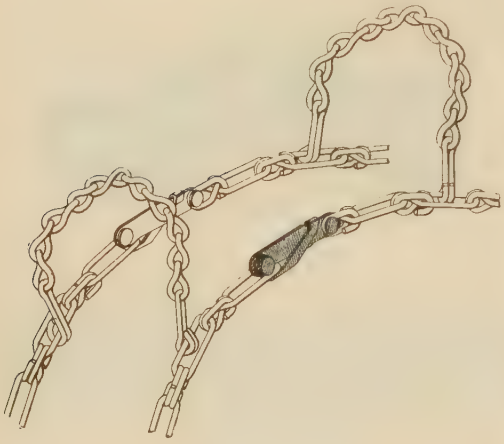
Ser. No. 154,904. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VIRDEN PACKING COMPANY, Oakland, Calif. Filed Nov. 1, 1921.

FERRY

Particular description of goods.—Canned Fruits and Canned Vegetables.

Claims use since Aug. 5, 1921.

Ser. No. 155,005. (CLASS 13. HARDWARE AND PLUMBING, AND STEAM-FITTING SUPPLIES.) AMERICAN CHAIN COMPANY, INC., New York, N. Y., and Bridgeport, Conn. Filed Nov. 4, 1921.



The tire chain shown in the drawing is disclaimed apart from the red connector. Trade-mark consists of a red connector for side chains of antiskid chains as expressed by conventional lining for the color red shown in said drawing.

Particular description of goods.—Antiskid Chains for Vehicle Wheels.

Claims use since July 20, 1920.

Ser. No. 155,056. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GASCO SPECIALTY COMPANY, INC., New York, N. Y. Filed Nov. 5, 1921.

BACKMASSE

Particular description of goods.—Nut-Kernel Paste.

Claims use since July 1, 1913.

Ser. No. 155,076. (CLASS 39. CLOTHING.) WRIGHT'S UNDERWEAR COMPANY, INCORPORATED, New York, N. Y. Filed Nov. 5, 1921.

TRIANA

Particular description of goods.—Knit Underwear for Women and Children.

Claims use since July 2, 1919.

Ser. No. 155,136. (CLASS 39. CLOTHING.) JOSEPH C. BOSSONG, doing business as J. C. Bossong & Co., New York, N. Y. Filed Nov. 8, 1921.

Particular description of goods.—Children's Hose.

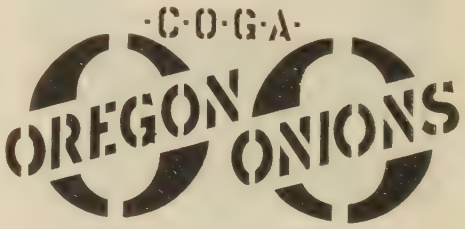
Claims use since Dec. 1, 1920.

Ser. No. 155,175. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INTERNATIONAL COFFEE CO., Houston, Tex. Filed Nov. 8, 1921.

Particular description of goods.—Coffee and Tea.

Claims use since 1900.

Ser. No. 155,302. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CONFEDERATED ONION GROWERS ASSOCIATION, Portland, Oreg. Filed Nov. 12, 1921.



The words "Oregon Onions" apart from other features of mark are disclaimed.

Particular description of goods.—Raw Onions.

Claims use since Mar. 31, 1921.

Ser. No. 155,345. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) G. SENSAT, HIJOS, Barcelona, Spain. Filed Nov. 14, 1921.

No claim is made to the exclusive use of the outline of the wrapper of the goods and of the descriptive and geographical reading matter appearing on the drawing—i. e., "Aceites," "Aceitunas," "Registrada," "Aceite," "Garantido Puro de Oliva," "Barcelona," and "La Marca es Ventajosamente Conocida y Apreciada en Todos los Mercados del Universo" apart from the mark shown on the drawing.

Particular description of goods.—Olive Oil.
Claims use since 1909.

Ser. No. 155,373. (CLASS 39. CLOTHING.) TAYLOR AND WATSON, INC., Dover, Del., and New York, N. Y. Filed Nov. 14, 1921.

DEESIDE

Particular description of goods.—Hosiery for Men, Women, and Children.
Claims use since Dec. 15, 1920.

Ser. No. 155,382. (CLASS 39. CLOTHING.) THE WINGET MANUFACTURING CO., Minneapolis, Minn. Filed Nov. 14, 1921.

Kickernick

Particular description of goods.—Bloomers, Children's Coveralls, and Sleeping Garments.
Claims use since Sept. 28, 1920.

Ser. No. 155,429. (CLASS 39. CLOTHING.) HOWARD I. BRANSON & CO., Philadelphia, Pa. Filed Nov. 16, 1921.

Hibco

Particular description of goods.—Children's Dresses, Coats, and Caps.
Claims use since Nov. 1, 1911.

Ser. No. 155,552. (CLASS 39. CLOTHING.) EMERY & BEERS COMPANY, INC., New York, N. Y. Filed Nov. 18, 1921.

"HEELTEX"

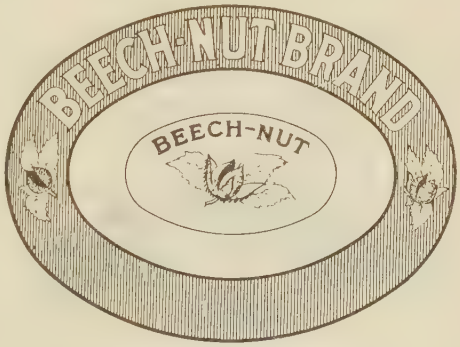
Particular description of goods.—Hosiery.
Claims use since Oct. 24, 1921.

Ser. No. 155,620. (CLASS 39. CLOTHING.) MADELEINE KUSTER, Ossining, N. Y. Filed Nov. 19, 1921.

E-Z-ON

Particular description of goods.—Infants' Coats.
Claims use since Aug. 20, 1921.

Ser. No. 155,658. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Filed Nov. 21, 1921.



The color band shown being in red, the word "Brand" being disclaimed.

Particular description of goods.—Bread.
Claims use since Oct. 25, 1921.

Ser. No. 155,672. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE ESMOND MILLS, New York, N. Y. Filed Nov. 21, 1921.

Trade-mark is representation of a bunny.

Particular description of goods.—Blankets, Blanket Fabrics in the Piece, Cotton Piece Goods, Ribbons in the Piece; Robes in the Nature of Auto Rugs, Steamer Rugs, or the Like; Rugs, Comfortables, and Mattress Protectors.

Claims use since Sept. 20, 1907.

Ser. No. 155,704. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Nov. 21, 1921.

LACTONE

Particular description of goods.—Buttermilk Tablets for Making Artificial Buttermilk.

Claims use since 1909.

Ser. No. 155,768. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEW ENGLAND BREWING COMPANY, Jersey City, N. J., and Boston, Mass. Filed Nov. 22, 1921.

Particular description of goods.—Cane and Maple-Sugar Sirup.

Claims use since Oct. 10, 1921.

Ser. No. 155,824. (CLASS 39. CLOTHING.) MUTUAL HOSIERY MILLS, INC., Philadelphia, Pa. Filed Nov. 23, 1921.

No claim made to exclusive use of word "Knit" apart from mark shown in drawing.

Particular description of goods.—Full-Fashioned and Seamless Silk Hosiery.

Claims use since Aug. 27, 1920.

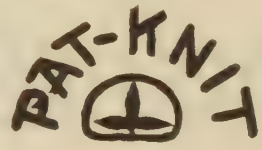
Ser. No. 155,826. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) PERRY AND COMPANY LIMITED, Birmingham, England. Filed Nov. 23, 1921. Under ten-year proviso.

PERRY

Particular description of goods.—Driving Chains for Cycles.

Claims use since March, 1888.

Ser. No. 155,828. (CLASS 39. CLOTHING.) PATERSON KNITTING MILLS, INC., Paterson and Ramsey, N. J. Filed Nov. 23, 1921.



No claim being made to the exclusive use of the word "Knit" apart from the mark as shown.

Particular description of goods.—Full Fashioned and Seamless Silk Hosiery.

Claims use since June 24, 1921.

Ser. No. 156,175. (CLASS 39. CLOTHING.) THE PARAMOUNT KNITTING COMPANY, Chicago, Ill. Filed Dec. 1, 1921.

WOLVERINE

Particular description of goods.—Textile Articles—Namely, Hosiery.

Claims use since Nov. 19, 1921.

Ser. No. 156,184. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VAN DYK & LINDSAY INC., New York, N. Y. Filed Dec. 1, 1921.

V. L.

Particular description of goods.—Tunis Dates, Colmar Grapes, Muscatel Grapes, and Belgian Endives in Their Natural State.
Claims use since Sept. 19, 1921.

Ser. No. 156,202. (CLASS 39. CLOTHING.) J. A. and R. E. SOLMES, St. Paul, Minn. Filed Dec. 2, 1921.

Rosalia

Particular description of goods.—Ladies Aprons, House Dresses, and Dresses of Cotton Material for Street and Outdoor Wear.
Claims use since Mar. 1, 1921.

Ser. No. 156,204. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE TELECHRONOMETER COMPANY OF AMERICA, Seattle, Wash. Filed Dec. 2, 1921.

TELECHRONOMETER

Particular description of goods.—Meters for Automatically Recording the Length of Telephone Conversation in Units of Time.
Claims use since June 1, 1909.

Ser. No. 156,265. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROSA CHINN, New Orleans, La. Filed Dec. 5, 1921.

The portrait in drawing is that of applicant.
Particular description of goods.—Hair Grease, Hair Oil, and Shampoo.
Claims use since Oct. 17, 1921.

Ser. No. 156,346. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, Jersey City, N. J. Filed Dec. 7, 1921.

BLUE PETER

Particular description of goods.—Canned Sardines.
Claims use since about Nov. 20, 1921.

Ser. No. 156,497. (CLASS 39. CLOTHING.) LONG ISLAND KNITTING MILLS CO., Brooklyn, N. Y. Filed Dec. 9, 1921.

Adjusto

Particular description of goods.—Bathing Suits.
Claims use since Nov. 7, 1921.

Ser. No. 156,534. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) ROYDEN C. KIRK, doing business as Klever Kraft Company, Medford, Mass. Filed Dec. 10, 1921.

HOOK-ON-ER

Particular description of goods.—Hook Corners for Hanging Pictures, Passepartouts, Cards, and the Like.
Claims use since Oct. 10, 1921.

Ser. No. 156,558. (CLASS 37. PAPER AND STATIONERY.) BYRON WESTON COMPANY, Dalton, Mass. Filed Dec. 10, 1921.

IN THE BEST

BW

BUSINESS CIRCLES

Particular description of goods.—Writing Paper.
Claims use since on or about Nov. 15, 1921.

Ser. No. 156,600. (CLASS 39. CLOTHING.) RICE-STIX DRY GOODS COMPANY, St. Louis, Mo. Filed Dec. 12, 1921.

"Good Morning"

Particular description of goods.—Women's Frocks and Dresses.
Claims use since Nov. 14, 1921.

Ser. No. 156,607. (CLASS 39. CLOTHING.) THE UNITED STATES OVERALL MANUFACTURING COMPANY, Cincinnati, Ohio. Filed Dec. 12, 1921.

"GOODBUY"

Particular description of goods.—Overalls, Overall Coats, Overall Trousers, Overall Suits, Coveralls, and Work Shirts.
Claims use since June, 1921.

Ser. No. 156,633. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) IRISH LINEN SOCIETY, Belfast, Ireland. Filed Dec. 13, 1921.

IRISH LINEN SOCIETY

Particular description of goods.—Linen Fabrics as Follows, Embroidery Linens in the Piece, Linen Interlinings, Linen Diapers in the Piece, Linen Doylies, Pillow Linens and Brown Linens, Linen Sheetings, Linen Handkerchiefs, Linen Cambric, Linen Hucks and Towels, Linen Damasks, Linen Dress Goods; Linen Canvas, Hollands, Buckrams, Padding, and Shrunk Ducks; Textile Trunk Linings, May and Window Hollands; Linen Crash, Checks, and Tea Cloths; Typed Glass Cloths, Linen Bleached Duck Drills and Suitings, Linen Embroidered goods in the Piece, Plain Linen Sheets, Pillowcases, Tickings, Flax Sheetings, and Textile Aeroplane Fabrics.
Claims use since Apr. 11, 1921.

Ser. No. 156,641. (CLASS 39. CLOTHING.) KAUFMAN MANUFACTURING CO., Tacoma, Wash., assignor to Gaiety Garment Company of Los Angeles, Calif., a Corporation of Washington. Filed Dec. 13, 1921.

Gaiety

Particular description of goods.—Kitchenette Dresses, House Dresses, and Aprons.
Claims use since May 15, 1919.

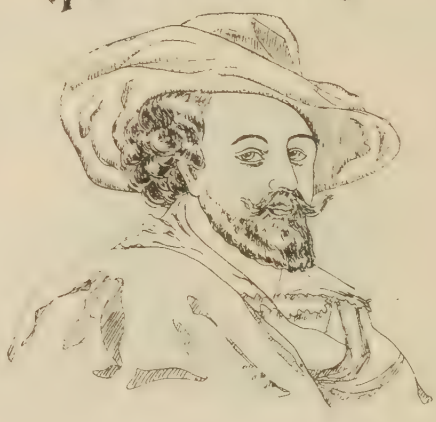
Ser. No. 156,713. (CLASS 39. CLOTHING.) HARRY O. QUICK, doing business as Quick Shoe Company, Brockton, Mass. Filed Dec. 14, 1921.

HQK

Particular description of goods.—Leather Boots and Shoes.
Claims use since Nov. 10, 1921.

Ser. No. 156,804. (CLASS 17. TOBACCO PRODUCTS.) REID, MURDOCH & CO., Chicago, Ill. Filed Dec. 16, 1921.

RUBENS



Trade-mark consists of the arbitrary word or name "Rubens" and a fanciful portrait of Rubens.
Particular description of goods.—Cigars.
Claims use since Jan. 20, 1888.

Ser. No. 156,858. (CLASS 39. CLOTHING.) J. C. PENNEY COMPANY, Salt Lake City, Utah, and New York, N. Y. Filed Dec. 17, 1921.

TRUE BLUE

The drawing is shaded to indicate the color blue.

Particular description of goods.—Men's Work Shirts, Boys' Work Shirts, Boys' Blouses and Play Suits.

Claims use since Nov. 15, 1921.

Ser. No. 156,863. (CLASS 39. CLOTHING.) ALEXANDER N. SAAB, New York, N. Y. Filed Dec. 17, 1921.

"Saab Lingerie"

No claim being made to the word "Lingerie" apart from mark shown in drawing.

Particular description of goods.—Batiste Lingerie.

Claims use since 1918.

Ser. No. 156,892. (CLASS 39. CLOTHING.) EAGLE GARMENT COMPANY, Los Angeles, Calif. Filed Dec. 19, 1921.

Betty Jane

Particular description of goods.—Women's and Children's Dresses and Skirts, Women's Shirt Waists, Women's and Children's House Robes, Women's and Children's Middies, Children's Rompers and Playsuits.

Claims use since Nov. 29, 1921.

Ser. No. 156,923. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RAFAEL ROMERO, Tucson, Ariz. Filed Dec. 19, 1921.

PIRULI

Particular description of goods.—Candy.

Claims use since Oct. 1, 1921.

Ser. No. 156,948. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. BOURJOIS & CO. INC., New York, N. Y. Filed Dec. 20, 1921.

Particular description of goods.—Perfumes Sold as Extracts and Lotions.

Claims use since Jan. 21, 1891.

Ser. No. 156,949. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. BOURJOIS & CO. INC., New York, N. Y. Filed Dec. 20, 1921.

The trade-mark shows upon a golden seal with border consisting of two annular rings of different shades of violet, a black and golden vase containing the representation of violets and leaves in natural colors, and the words "Ashes of Violets," printed in black with violet shading.

Particular description of goods.—Rouge, in the Nature of Compact and Face Powder.

Claims use since May, 1913.

Ser. No. 156,951. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. BOURJOIS & CO. INC., New York, N. Y. Filed Dec. 20, 1921.

ETOILE D'AMOUR

Particular description of goods.—Face Powder, Perfumes Sold as Extracts, Crystallized Brilliantine, and Sachet Powder.

Claims use since Nov. 16, 1903.

Ser. No. 156,998. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) V. LANGMANN, INC., New York, N. Y. Filed Dec. 21, 1921.

No claim being made to the exclusive use of the pictorial representation of the outline of the container apart from the mark as shown on the drawing.

Consisting of the pictorial representation of an oval can provided with circumferential bands, the upper and lower bands being yellow, the lower intermediate band being green, the upper intermediate band being red, and the central band being white, and the word "Bosca" printed upon the white band.

Particular description of goods.—Olive Oil.

Claims use since about June 15, 1921.

Ser. No. 157,009. (CLASS 39. CLOTHING.) STRONGE AND WARNER COMPANY, St. Paul, Minn. Filed Dec. 21, 1921.

MARCELLED

Particular description of goods.—Ladies' Hats.

Claims use since Jan. 23, 1921.

Ser. No. 157,044. (CLASS 39. CLOTHING.) RUBBERIZED SHEETING & SPECIALTY CO., INC., New York, N. Y. Filed Dec. 22, 1921.

"GUMBO"

Trade-mark "Gumbo."

Particular description of goods.—Waterproof Aprons.

Claims use since October, 1921.

Ser. No. 157,120. (CLASS 39. CLOTHING.) SIG. WEISENBURGER & CO., New York, N. Y. Filed Dec. 24, 1921.

Briarcliff

Trade-mark "Briarcliff."

Particular description of goods.—Ladies' Trimmed and Tailored Hats.

Claims use since Nov. 19, 1921.

Ser. No. 157,302. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) COLUMBIAN ENAMELING & STAMPING CO., Terre Haute, Ind. Filed Dec. 30, 1921.

Sanitrox

Particular description of goods.—Enameled Steel Teapots, Coffeepots, Biggins, Teakettles, Bread Raisers, Duchess Kettles, Foot Baths, Infants' Baths, Cereal Cookers, Saucepans, Preserving Kettles, Dish Pans, Sink Strainers, Rinsing Pans, Berlin Kettles, Convex Kettles, Sauce Pots and Pans, Seamless Colanders, Baking Dishes, Utility Pans, Soap Dishes, Water Pitchers and Bowls, Milk Kettles, Milk Pans, Pudding Pans, Stewpans, Mixing Bowls, Drinking Cups, Custard Cups, Saucers, Dinner Plates, Muffin Pans, Pie Plates, Jelly-Cake Pans, Soup Ladles, Dippers, Soup Strainers, Chambers, Spittoons and Cuspidors, Stock Pots.

Claims use since Nov. 8, 1921.

Ser. No. 157,332. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PANNETT & NEDEN, London, England. Filed Dec. 30, 1921.

KOLENE

Particular description of goods.—A Pomatum Dressing for the Hair.

Claims use since June 16, 1902.

Ser. No. 157,404. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. BOURJOIS & CO. INC., New York, N. Y. Filed Jan. 3, 1922.

ELEKTRA

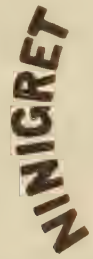
Particular description of goods. -Toilet Preparations, Rouge, Rouge Powder, Liquid Rouge, Rouge Gras, Lip Salve, Preparations for Giving a Luster to Eyebrows and Eyelashes,, and Nail Polishes.

Claims use since April, 1901.

Ser. No. 157,736. (CLASS 39. CLOTHING.) SMITH SHOE CO. INC., Lynn, Mass. Filed Jan. 10, 1922.

Particular description of goods.—Leather and Fabric Boots, Shoes, and Slippers and Rubbers.
Claims use since November, 1921.

Ser. No. 157,817. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ASHAWAY LINE & TWINE MANUFACTURING COMPANY, Ashaway, R. I. Filed Jan. 12, 1922.



Particular description of goods.—Fishing Line.
Claims use since 1916.

Ser. No. 157,939. (CLASS 13. HARDWARE AND PLUMBING AND STEAM FITTING SUPPLIES.) S. A. MAXWELL & CO., Chicago, Ill. Filed Jan. 14, 1922.

AIRANLITE

Particular description of goods.—Window-Shade Brackets.
Claims use since Oct. 26, 1921.

Ser. No. 157,997. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES). KEYSTONE STEEL & WIRE COMPANY, Peoria, Ill. Filed Jan. 16, 1922.

CORN BELT

Particular description of goods.—Wire Fencing and Barb Wire.
Claims use since on or about Oct. 1, 1921.

Ser. No. 158,024. (CLASS 37. PAPER AND STATIONERY.) WHITE & WYCKOFF MANUFACTURING COMPANY, Holyoke, Mass. Filed Jan. 16, 1922.

Particular description of goods.—Writing Paper Tablets, Papeteries, Typewriter Tablets, Writing and Printing Paper and Mailing Envelopes.
Claims use since Apr. 16, 1921.

Ser. No. 158,053. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MUTUAL PHARMACAL COMPANY, Boston, Mass. Filed Jan. 17, 1922.

The Mutual Pharmacal Company disclaims the right to register the words "Chocolate Laxative," "Manufactured by," and "Boston, Mass." appearing on the drawing.
Particular description of goods.—A Chocolate Laxative Tablet.
Claims use since Aug. 1, 1921.

Ser. No. 158,135. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD MCDONNELL, doing business as Edw. McDonnell & Co., Smiths Ferry, Pa. Filed Jan. 19, 1922.

Asthmarol

Particular description of goods.—Internal Medicine for the Relief of Asthma, Hay Fever, Croup, Coughs, Colds.
Claims use since Nov. 3, 1921.

Ser. No. 158,265. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARTHUR H. SWINBURNE, doing business as Mortona Medicine Co., Middletown, N. Y. Filed Jan. 21, 1922.

No claim being made to the words "The New Stomach Treatment" aside from the mark.

Particular description of goods.—A Medicine for the Treatment of the Stomach, Liver, and Intestines.

Claims use since Dec. 1, 1921.

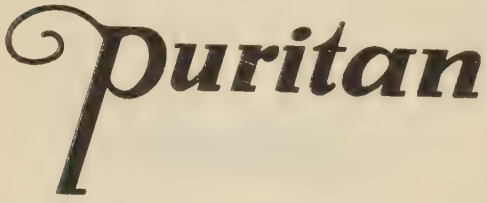
Ser. No. 158,323. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAGIC NAIL POLISH CO., New York, N. Y. Filed Jan. 23, 1922.

The words "Nail Polish" being disclaimed apart from the mark as shown.

Particular description of goods.—Nail-Polish Liquid, Nail-Polish Powder, Nail-Polish Cake.

Claims use since November, 1921.

Ser. No. 158,437. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PARISTYLE NOVELTY CO. INC., New York, N. Y. Filed Jan. 25, 1922



Particular description of goods.—Hair Nets.

Claims use since about Jan. 15, 1916.

Ser. No. 158,481. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THOMAS MADDOCK'S SONS COMPANY, Trenton, N. J. Filed Jan. 26, 1922.

No claim is made to the wording "Trenton, N. J.," apart from the mark shown.

Particular description of goods.—Tanks for Water Closets, Water Closets, Urinals, Lavatories, Public Drinking Fountains, Sinks, Bidet Pans, and Bathroom Trimmings and Fittings—Namely, Brackets, Shelves, Hooks, Glass Holders, Sponge Holders, Whisk-Broom Holders, Comb and Brush Holders, Soap Holders, Towel Bars.

Claims use since 1907.

Ser. No. 158,666. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) AMERICAN ABRASIVE METALS COMPANY, New York, N. Y. Filed Jan. 31, 1922.

ALUMALUN

Particular description of goods.—Stair Treads and Floor Plates.

Claims use since Dec. 5, 1921.

Ser. No. 158,721. (CLASS 17. TOBACCO PRODUCTS.) MI FAVORITA CIGAR COMPANY, INC., New York, N. Y. Filed Feb. 1, 1922.

MI PURO

Particular description of goods.—Cigars, Cigarettes, Smoking and Chewing Tobacco.

Claims use since 1883.

Ser. No. 158,858. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE DELSON CHEMICAL CO., INC., Brooklyn, N. Y. Filed Feb. 4, 1922.

SULFURSAN

Particular description of goods.—Medicinal Preparation for the Treatment and Relief of Rheumatism, Sciatica, Gout, and Neuritis.

Claims use since April, 1921.

Ser. No. 158,891. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARTHUR L. PORTER, New York, N. Y. Filed Feb. 4, 1922.

FOOT-LUCK

Particular description of goods.—Powder for Foot Baths.

Claims use since June 1, 1921.

Ser. No. 158,894. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) QUINORIENT COMPANY, INC., New York, N. Y. Filed Feb. 4, 1922

Quinorient

Trade-mark consists of the word "Quinorient."

Particular description of goods.—Hair Tonic.

Claims use since Dec. 31, 1921.

Ser. No. 158,896. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) JOHN D. SAWYER, doing business as Sawyer Belt Hook Co., Pawtucket, R. I. Filed Feb. 4, 1922

SAWILCO

Particular description of goods.—Belt Hooks.

Claims use since May 8, 1921.

Ser. No. 158,920. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANK E. ERICKSON, Duluth, Minn. Filed Feb. 6, 1922.

Particular description of goods.—Constipation Pencils for the Relief of Chronic and Temporary Constipation Trouble.

Claims use since Feb. 2, 1922.

Ser. No. 158,968. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN P. BIEDKA, Brooklyn, N. Y. Filed Feb. 7, 1922.

MORTURI

Particular description of goods.—Medicine for Consumption, Stomach Poisoning, and for a General Medicinal Tonic.

Claims use since June 15, 1921.

Ser. No. 158,987. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ELI LILLY & COMPANY, Indianapolis, Ind. Filed Feb. 7, 1922.

DIGIGLUSIN

Trade-mark "Digiglusin."

Particular description of goods.—Medicinal Preparation in Tablet Form for Use as a Heart Tonic or Stimulant.

Claims use since July 25, 1921.

Ser. No. 159,003. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WHYTE NAML SPECIALTY CO., INC., Brooklyn, N. Y. Filed Feb. 7, 1922.

GUARANTEED
ORIGINAL PROCESS ENAMEL
THE
WHYTE NAML
SPECIALTY COMPANY
INC.
NOT GENUINE WITHOUT THIS TAG

No claim being made to the exclusive use of the word "Guaranteed," "Original Process Enamel" or "Not Genuine Without This Tag."

Particular description of goods.—Bathroom Fixtures and Enameled Ware—viz, Toilet-Paper Holders, Toothbrush Holders, Tumbler Holders; Comb, Toothbrush, and Tumbler Holders; Standing Soap Dishes, Wall Soap Dishes, Bath-Soap Dishes, Towel Bars, Bath-Sponge Holders; Comb, Bath-Soap, and Sponge Holders, and Bathroom Hooks.

Claims use since Jan. 18, 1922

Ser. No. 159,039. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE LYNDON CHEMICAL COMPANY, Dayton, Ohio. Filed Feb. 8, 1922.

SUPERSALV

Particular description of goods.—Veterinary Ointment for Caked Udders, Sprains, Bruises, Irritations, Burns, Galls, Mange, Eczema, Wounds, Cuts, and Processes.
Claims use since on or about Nov. 10, 1921.

Ser. No. 159,062. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IDA JANE TETLOW, trading as Henry Tetlow Company, Philadelphia, Pa. Filed Feb. 8, 1922.

Philomel

Particular description of goods.—Toilet Preparations—viz, Perfume, Toilet Cream, Rouge, Compact, and Face, Toilet, Nursery, and Talcum Powders.
Claims use since Oct. 26, 1921.

Ser. No. 159,074. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) BRIDGEPORT BRASS COMPANY, Bridgeport, Conn. Filed Feb. 9, 1922.

Plumrite

Particular description of goods.—Brass Pipe.
Claims use since on or about Jan. 3, 1922.

Ser. No. 159,137. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) BAKER BRUSH CO., INC., New York, N. Y. Filed Feb. 10, 1922.

BAKTN RUBBER

The drawing shows the mark "Baktn" associated with the word "Rubber." No claim is made to the word "Rubber" apart from the mark shown upon the drawing.
Particular description of goods.—Paintbrushes.
Claims use since Feb. 7, 1922.

Ser. No. 159,158. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) L. S. E. CO. INC., Brooklyn, N. Y. Filed Feb. 10, 1922.

Mirador

Particular description of goods.—Fancy Linens—Namely, Table Covers, Napkins, Handkerchiefs, Scarfs, Table Runners, Doylies, Centerpieces, Tray Cloths, Luncheon Sets, Tea Sets, Card Sets, Towels.
Claims use since Jan. 13, 1922.

Ser. No. 159,219. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PELZER MANUFACTURING COMPANY, Pelzer, S. C. Filed Feb. 11, 1922.

Particular description of goods.—Cotton Piece Goods.
Claims use since 1913.

Ser. No. 159,338. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BAMACEA COMPANY, INC., Boston, Mass. Filed Feb. 15, 1922.

Kiddy

Particular description of goods.—Soaps.
Claims use since Nov. 22, 1921.

Ser. No. 159,395. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WOLFEBORO MILLS, Wolfeboro, N. H. Filed Feb. 15, 1922.

PROFILE

Particular description of goods.—Cotton and Wool Blankets, Robes, and Rugs.
Claims use since Oct. 25, 1921.

Ser. No. 159,520. (CLASS 17. TOBACCO PRODUCTS.) MINT PRODUCTS CO. INCORPORATED, Port Chester, N. Y. Filed Feb. 18, 1922.

LIFE SAVERS

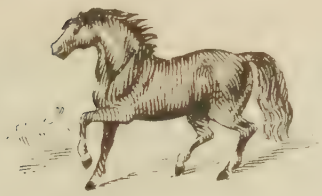
Particular description of goods.—Cigars, Cigarettes, Smoking and Chewing Tobacco.
Claims use since Feb. 4, 1922.

Ser. No. 159,680. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE ABSORENE MANUFACTURING COMPANY, St. Louis, Mo. Filed Feb. 23, 1922.

DIAMOND

Particular description of goods.—Wall-Paper Cleaner.
Claims use since February, 1921.

Ser. No. 159,994. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SAMUEL L. BLACK, doing business as Green Label Stove Polish Co., Boston, Mass. Filed Mar. 1, 1922.



Particular description of goods.—Stove Polish.
Claims use since Feb. 17, 1922.

Ser. No. 160,058. (CLASS 41. CANES, PARASOLS, AND UMBRELLAS.) SAMUEL C. GELBAND, New York, N. Y. Filed Mar. 2, 1922.

No claim being made to the word "Brand" apart from the mark shown in drawing.
Particular description of goods.—Parasols and Umbrellas.
Claims use since Feb. 1, 1922.

Ser. No. 160,079. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PARFUMERIE ROGER & GALLET, Paris, France. Filed Mar. 2, 1922.

FLEURS D'AMOUR

Particular description of goods.—Soaps, Soap Pastes, and Soap Powders.
Claims use since November, 1903.

Ser. No. 160,115. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CROFTS & REED CO., Chicago, Ill. Filed Mar. 3, 1922.

VICTORY PALM

Particular description of goods.—Toilet Soap.
Claims use since August, 1921.

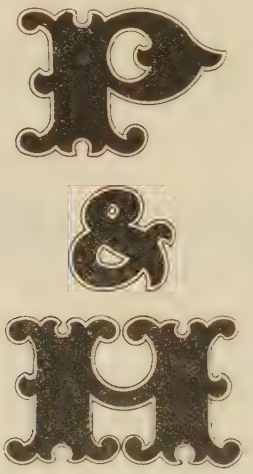
Ser. No. 160,192. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) WILLIAM M. HANSEN, doing business as Hansen Nursery & Floral Co., Niles, Mich. Filed Mar. 4, 1922.

No claim being made to the words "Grown in America, Niles, Michigan, Nurserymen and Florists" apart from mark shown.

Particular description of goods.—Plants, Shrubs, Trees, Cut Flowers, and Flower and Garden Seeds.

Claims use since January, 1918.

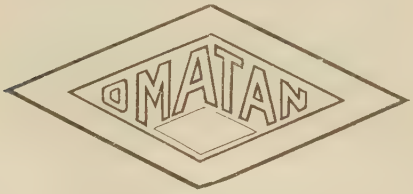
Ser. No. 160,251. (CLASS 17. TOBACCO PRODUCTS.) PATTERSON AND HOFFMAN, Oklahoma, Okla. Filed Mar. 6, 1922.



Particular description of goods.—Cigars.

Claims use since Sept. 30, 1907.

Ser. No. 160,425. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) OMAHA TANNING CO., Omaha, Nebr. Filed Mar. 9, 1922.



Particular description of goods.—Leather.

Claims use since May, 1921.

Ser. No. 160,443. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) TRINITY CHEMICAL CORPORATION, White Plains, N. Y. Filed Mar. 9, 1922.

BIFF

Particular description of goods.—Washing Compound for General Household, Kitchen, and Laundry Purposes.

Claims use since May 1, 1919.

Ser. No. 160,444. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) TRINITY CHEMICAL CORPORATION, White Plains, N. Y. Filed Mar. 9, 1922.

TRINITE

Particular description of goods.—Cleanser for Industrial, Household, and All General Cleaning.

Claims use since Apr. 1, 1921.

Ser. No. 160,517. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) TENNESSEE EASTMAN CORPORATION, Kingsport, Tenn. Filed Mar. 10, 1922.

CHARKETS

Particular description of goods.—Charcoal Not Specially Prepared for Decolorizing or Deodorizing.

Claims use since Dec. 20, 1921.

Ser. No. 160,520. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) UNITED DRUG COMPANY, Boston, Mass. Filed Mar. 10, 1922.

THE CRITERION

Particular description of goods.—Toothbrushes.

Claims use since 1911.

Ser. No. 160,609. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) JEWETT, BIGELOW & BROOKS, Detroit, Mich. Filed Mar. 13, 1922.

Particular description of goods.—Coal.
Claims use since Sept. 20, 1921.

Ser. No. 160,760. (CLASS 33. GLASSWARE.) GILL BROTHERS COMPANY, Steubenville, Ohio. Filed Mar 16, 1922.

Trulite

Particular description of goods.—Lamp Chimneys, Lamp Shades, Lamp Globes, Lantern Globes, Gas Chimneys and Globes, and Electric Shades and Globes, and Lamp, Lantern, Gas, and Electric Reflectors, All Made of Glass
Claims use since Feb. 27, 1922.

Ser. No. 160,786. (CLASS 12. CONSTRUCTION MATERIALS.) EDWARD W. ANDRESEN, Chicago, Ill. Filed Mar. 17, 1922.

Tuftread

Particular description of goods.—Bituminous Road Top Dressing.
Claims use since about Sept. 12, 1921.

Ser. No. 160,823. (CLASS 12. CONSTRUCTION MATERIALS.) WM. MOELLERING'S SONS, Fort Wayne, Ind. Filed Mar. 17, 1922.

BESTUCCO

Particular description of goods.—Stucco.
Claims use since Sept. 15, 1921.

Ser. No. 160,937. (CLASS 12. CONSTRUCTION MATERIALS.) THE GIPSOLITE COMPANY, Buffalo, N. Y. Filed Mar. 20, 1922.

GIPSOLITE

Particular description of goods.—Wall Board, Plaster Board, and Gypsum Plaster.
Claims use since Mar. 4, 1922.

Ser. No. 160,962. (CLASS 12. CONSTRUCTION MATERIALS.) THE NATIONAL MAGNESITE STUCCO CO., Wyandotte, Mich. Filed Mar. 20, 1922.

GRANATEX

Particular description of goods.—Magnesite Stucco.
Claims use since Mar. 19, 1921.

Ser. No. 160,965. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE OWL DRUG COMPANY, San Francisco, Calif. Filed Mar. 20, 1922.

SHU-GLO

Particular description of goods.—Cleaning Fluid for Shoes and Leather Goods.
Claims use since May 1, 1917.

Ser. No. 161,013. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE RIESER COMPANY, New York, N. Y. Filed Mar. 21, 1922.

VENIDA

Particular description of goods.—Soaps.
Claims use since Feb. 6, 1922.

Ser. No. 161,028. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE BRYANT HEATER AND MANUFACTURING CO., Cleveland, Ohio. Filed Mar. 22, 1922.

Particular description of goods.—Tubular Gas Boilers.
Claims use since Feb. 1, 1922.

Ser. No. 161,069. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE SEVEN OILS CO., INC., Boston, Mass. Filed Mar. 22, 1922.

Particular description of goods.—Soaps.
Claims use since June, 1920.

Ser. No. 161,139. (CLASS 37. PAPER AND STATIONERY.) THE MARVELLUM COMPANY, Holyoke, Mass. Filed Mar. 23, 1922.

MARVELLUSTRE

Particular description of goods.—Cover Paper.
Claims use since Feb. 8, 1922.

Ser. No. 161,191. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE ANDREW JERGENS COMPANY, Cincinnati, Ohio. Filed Mar. 24, 1922.

DADDY

Particular description of goods.—Toilet Soap.
Claims use since 1892.

Ser. No. 161,201. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE RIESER COMPANY, New York, N. Y. Filed Mar. 24, 1922.

NIGHT AND DAY

Particular description of goods.—Soaps.
Claims use since Feb. 6, 1922.

Ser. No. 161,220. (CLASS 37. PAPER AND STATIONERY.) ASSOCIATED RADIOGRAPH LABORATORIES, San Francisco, Calif. Filed Mar. 25, 1922.

RADIODENT

Particular description of goods.—A Fiber-Board Frame Used in Displaying X-Ray Photographs of Teeth.
Claims use since Dec. 30, 1921.

Ser. No. 161,237. (CLASS 39. CLOTHING.) DOROTHY BICKUM, New York, N. Y. Filed Mar. 25, 1922.

KICK-IN

Particular description of goods.—Women's Skirt Drawers and Combinations.
Claims use since Mar. 11, 1922.

Ser. No. 161,246. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. L. FLEMING, doing business as H. L. Fleming Laboratory, Boerne, Tex. Filed Mar. 25, 1922.

SUNSHINE

Particular description of goods.—Tooth Paste.
Claims use since Jan. 17, 1922.

Ser. No. 161,484. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE GAS & ELECTRIC APPLIANCE COMPANY, Cincinnati, Ohio. Filed Mar. 30, 1922.

EARLY BREAKFAST

Particular description of goods.—Gas Ranges.
Claims use since Jan. 1, 1922.

Ser. No. 161,580. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE REMMERS SOAP COMPANY, Cincinnati, Ohio. Filed Mar. 31, 1922.

Tropicpalm

Particular description of goods.—Soap.
Claims use since Feb. 14, 1922.

Ser. No. 161,663. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) WINCROFT STOVE WORKS, Middletown Borough, Pa. Filed Apr. 1, 1922.

ENDURO

Particular description of goods.—Coal and Gas Stoves.
Claims use since May 22, 1920.

Ser. No. 161,714. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) ABNER-DRURY COMPANY, Washington, D. C. Filed Apr. 4, 1922.

ABNER DRURY

Particular description of goods.—Ginger Ale.
Claims use since Mar. 14, 1922.

Ser. No. 161,758. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) UNITED DRUG COMPANY, Boston, Mass. Filed Apr. 4, 1922.

BUSTER BROWN TOOTH BRUSHES

The word "Toothbrushes" is disclaimed.
Particular description of goods.—Toothbrushes.
Claims use since Feb. 1, 1909.

Ser. No. 161,799. (CLASS 37. PAPER AND STATIONERY.) STANDARD CRAYON MANUFACTURING CO., Danvers, Mass. Filed Apr. 5, 1922.

CREST LIGHT

Particular description of goods.—Wax and Chalk Crayons.
Claims use since 1908.

Ser. No. 161,800. (CLASS 37. PAPER AND STATIONERY.) STANDARD CRAYON MANUFACTURING CO., Danvers, Mass. Filed Apr. 5, 1922.

MURILLO

Particular description of goods.—Wax and Chalk Crayons.
Claims use since 1914.

Ser. No. 161,801. (CLASS 37. PAPER AND STATIONERY.) STANDARD CRAYON MANUFACTURING CO., Danvers, Mass. Filed Apr. 5, 1922.

CRAYEL

Particular description of goods.—Wax and Chalk Crayons.
Claims use since 1916.

Ser. No. 161,802. (CLASS 37. PAPER AND STATIONERY.) STANDARD CRAYON MANUFACTURING CO., Danvers, Mass. Filed Apr. 5, 1922.

OMEGA

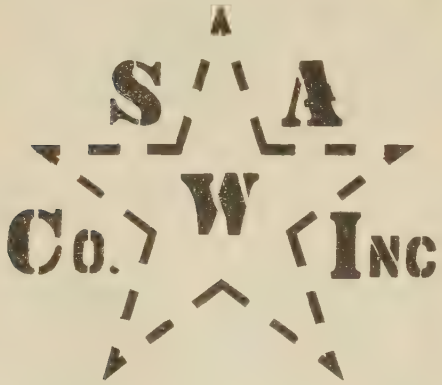
Particular description of goods.—Wax and Chalk Crayons.
Claims use since 1903.

Ser. No. 161,969. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) THE CROWN BREWING CO. INC., Cincinnati, Ohio. Filed Apr. 10, 1922.

Happy Days

Particular description of goods.—A Nonintoxicating, Malt, Cereal, and Hop Beverage Containing Less Than One-Half of One Per Cent Alcohol, Sold as a Soft Drink, Commonly Known as Near Beer.
Claims use since Nov. 16, 1921.

Ser. No. 162,152. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) S. A. WENGER & CO. INC., New York, N. Y. Filed Apr. 11, 1922.



Particular description of goods.—Raw Silk.
Claims use since Mar. 21, 1922.

Ser. No. 162,307. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) MORSE & BURT CO., INC., Brooklyn, N. Y. Filed Apr. 14, 1922.

MAILAFORM

Particular description of goods.—Appliances for Obtaining Casts for Fitting Shoes.
Claims use since Jan. 2, 1922.

Ser. No. 162,422. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) HERMAN KRAUSS, Toledo, Ohio. Filed Apr. 17, 1922.

Particular description of goods.—Malt Extracts.
Claims use since Mar. 20, 1922.

Ser. No. 162,455. (CLASS 12. CONSTRUCTION MATERIALS.) RUTLAND FIRE CLAY CO., Rutland, Vt. Filed Apr. 17, 1922. Under Sec. 9 of the act of Mar. 19, 1920.

RUTLAND

Particular description of goods.—Patching Plaster for Walls, Liquid Roof Cement, Plastic Roofing Cement, Paste Pipe-Joint Cement, and Boiler Covering.
Claims use since some time in 1905.

Ser. No. 162,644. (CLASS 12. CONSTRUCTION MATERIALS.) THE PARAFFINE COMPANIES, INC., San Francisco, Calif. Filed Apr. 20, 1922.

SANTO

Particular description of goods.—Waterproof and Weatherproof Roofings Manufactured from Waterproof Material Combined with Felt or Paper or a Combination of Such Material.
Claims use since October, 1917.

Ser. No. 163,029. (CLASS 12. CONSTRUCTION MATERIALS.) BELLGRADE LUMBER COMPANY, Memphis, Tenn. Filed Apr. 28, 1922.

Particular description of goods.—Hardwood Lumber.
Claims use since the first part of September, 1921.

Ser. No. 163,030. (CLASS 12. CONSTRUCTION MATERIALS.) BELLGRADE LUMBER COMPANY, Memphis, Tenn. Filed Apr. 28, 1922.

Particular description of goods.—Hardwood Lumber.
Claims use since the first part of September, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

JUNE 6, 1922.

155,593. SHAMPOOS. ALADDIN PRODUCTS COMPANY, Chicago, Ill.
Filed August 29, 1921. Serial No. 152,302. PUBLISHED JANUARY 24, 1922.

155,594. CONCEALABLE BEDS. AMERICAN AUTOMATIC LOCK AND LIFT COMPANY, San Francisco, Calif.
Filed October 5, 1921. Serial No. 153,755. PUBLISHED FEBRUARY 21, 1922.

155,595. ELECTRICAL BLOWERS. AMERICAN BLOWER COMPANY, Detroit, Mich.
Filed September 17, 1921. Serial No. 153,028. PUBLISHED JANUARY 10, 1922.

155,596. FEATHERSTITCH BRAID AND EMBROIDERY EDGING. THE AMERICAN FABRICS COMPANY, Bridgeport, Conn.
Filed June 10, 1921. Serial No. 148,913. PUBLISHED JANUARY 3, 1922.

155,597. METAL POLISH. AMERICAN METAL POLISH CO., Somerville, Mass.
Filed September 2, 1921. Serial No. 152,496. PUBLISHED JANUARY 31, 1922.

155,598. ELECTRICAL WIRES, COVERED OR UNCOVERED, FOR ALL CONDUCTING PURPOSES AND RAIL BONDS FOR ELECTRICAL CONNECTION OF RAILWAY RAILS. THE AMERICAN STEEL & WIRE COMPANY OF NEW JERSEY, Cleveland, Ohio.
Filed December 1, 1921. Serial No. 156,139. PUBLISHED FEBRUARY 7, 1922.

155,599. BRACKETS FOR ELECTRIC LAMPS. ROBERT D. H. ANDERSON, New York, N. Y.
Filed February 5, 1921. Serial No. 143,198. PUBLISHED FEBRUARY 21, 1922.

155,600. CERTAIN NAMED MARINE ELECTRICAL EQUIPMENT. ARNESSEN ELECTRIC CO., INC., Brooklyn, N. Y.
Filed October 31, 1921. Serial No. 154,782. PUBLISHED JANUARY 31, 1922.

155,601. FACE CREAM AND POWDER. F. R. ARNOLD & Co., New York, N. Y.
Filed April 20, 1921. Serial No. 146,422. PUBLISHED JANUARY 31, 1922.

155,602. LOCAL ANÆSTHETIC. ASENSIN COMPANY OF AMERICA, New York, N. Y.
Filed November 3, 1921. Serial No. 154,952. PUBLISHED FEBRUARY 7, 1922.

155,603. FISHING LINE. ASHAWAY LINE & TWINE MANUFACTURING COMPANY, Ashaway, R. I.
Filed January 12, 1922. Serial No. 157,802. PUBLISHED FEBRUARY 21, 1922.

155,604. FISHING LINE. ASHAWAY LINE & TWINE MANUFACTURING COMPANY, Ashaway, R. I.
Filed January 12, 1922. Serial No. 157,806. PUBLISHED FEBRUARY 21, 1922.

155,605. HAIR TONIC, MASSAGE CREAM, AND TOILET WATER. LOUIS AUERBACH, Cleveland, Ohio.
Filed June 8, 1921. Serial No. 148,829. PUBLISHED JANUARY 24, 1922.

155,606. ANTISEPTIC HEALING POWDER USED FOR TIRED, ACHING, AND SWOLLEN FEET. W. LEE AUSTIN, Dallas, Tex.
Filed August 4, 1921. Serial No. 151,347. PUBLISHED JANUARY 3, 1922.

155,607. SHOE LACES. BAKER-POSTON-HEMPHILL & Co., Fort Worth, Tex.
Filed August 12, 1920. Serial No. 136,021. PUBLISHED JANUARY 3, 1922.

155,608. MATTRESSES. THE BALYEAT MFG. CO., Mansfield, Ohio.
Filed June 25, 1921. Serial No. 149,626. PUBLISHED DECEMBER 27, 1921.

155,609. COKE. THE BARRETT COMPANY, New York, N. Y.
Filed January 30, 1922. Serial No. 158,599. PUBLISHED MARCH 7, 1922.

155,610. MEN'S SUITS AND OVERCOATS. BARRON, ANDERSON CO., Boston, Mass.
Filed August 4, 1921. Serial No. 151,349. PUBLISHED JANUARY 31, 1922.

155,611. FRESH CITRUS FRUITS. BASTANCHURY RANCH COMPANY, Fullerton, Calif.
Filed October 3, 1921. Serial No. 153,638. PUBLISHED MARCH 14, 1922.

155,612. PREPARATIONS OR MEDICINES FOR CERTAIN NAMED PURPOSES. THE BAYER CO., INC., New York, N. Y.
Filed July 12, 1920. Serial No. 134,802. PUBLISHED JANUARY 24, 1922.

155,613. SOAP AND SOAP PREPARATIONS. JAMES BEACH & SONS, Dubuque, Iowa.
Filed November 24, 1919. Serial No. 125,218. PUBLISHED AUGUST 31, 1920.

155,614. LAUNDRY WASHING MACHINES. THE BELL WASHER AND WRINGER COMPANY, Cleveland, Ohio, assignor to The Foote-Burt Company, a Corporation of Ohio.
Filed March 7, 1921. Serial No. 144,375. PUBLISHED FEBRUARY 21, 1922.

155,615. CERTAIN NAMED MEDICINAL PREPARATIONS. WILLIAM BELL, Forestville, Calif., and Buffalo, N. Y.
Filed October 20, 1921. Serial No. 154,348. PUBLISHED JANUARY 31, 1922.

155,616. A SALVE FOR THE TREATMENT OF WOUNDS, SORES, IRRITATION, INFECTION, PILES, CHILBLAINS, RASH, FROSTBITE, ETC. LOUIS P. BELLAIRE, Le Mars, Iowa.
Filed November 17, 1921. Serial No. 155,476. PUBLISHED FEBRUARY 21, 1922.

155,617. POMADE. MRS. G. W. BENDY, Houston, Tex.
Filed November 18, 1921. Serial No. 155,547. PUBLISHED FEBRUARY 21, 1922.

155,618. BRASSIÈRES, BANDEAUX, READY-MADE DRESS LININGS, WATERPROOF APRONS, BABY PANTS, BUST SUPPORTERS, CORSETS, CHILDREN'S UNDERWAISTS, AND HOSE SUPPORTERS. C. BENEDICT MFG. CO., San Francisco, Calif.
Filed May 11, 1921. Serial No. 147,547. PUBLISHED FEBRUARY 7, 1922.

155,619. CLEANERS FOR METAL PRIOR TO PLATING, JAPANNING, GALVANIZING, AND ROUGH CLEANING BETWEEN MACHINE OPERATIONS. SOLOMON D. BENOLIEL, Philadelphia, Pa.
Filed August 17, 1921. Serial No. 151,861. PUBLISHED FEBRUARY 7, 1922.

155,620. FACE CREAM. DR. C. H. BERRY CHEMICAL CO., Chicago, Ill.
Filed November 3, 1920. Serial No. 139,107. PUBLISHED JANUARY 17, 1922.

155,621. NOVELTY BIAS BINDINGS. THE BIAS NARROW FABRIC COMPANY, New York, N. Y.
Filed November 3, 1921. Serial No. 154,957. PUBLISHED JANUARY 31, 1922.

155,622. MEDICINAL PREPARATION TO BE USED IN THE TREATMENT OF ASTHMA. BITZER & ROMMEL, Greenfield, Mass.
Filed February 19, 1920. Serial No. 128,590. PUBLISHED FEBRUARY 14, 1922.

155,623. CHILDREN'S AND MISSES' DRESSES. LOUIS BORGENICHT, New York, N. Y.
Filed June 9, 1921. Serial No. 148,867. PUBLISHED DECEMBER 20, 1921.

155,624. TOILET POWDERS AND COMPACTS. A. BOURJOIS & CO. INC., New York, N. Y.
Filed November 23, 1921. Serial No. 155,800. PUBLISHED FEBRUARY 28, 1922.

155,625. MOUTH WASH. BOWMAN DRUG CO., Oakland, Calif.
Filed November 9, 1921. Serial No. 155,213. PUBLISHED FEBRUARY 14, 1922.

155,626. DISINFECTING AND FUMIGATING CHEMICALS. PEABODY A. BROWN, Denver, Colo.
Filed August 18, 1921. Serial No. 151,905. PUBLISHED JANUARY 3, 1922.

155,627. A SHAMPOOING PREPARATION. RAYMOND C. BROWN, New York, N. Y.
Filed September 23, 1921. Serial No. 153,233. PUBLISHED JANUARY 3, 1922.

155,628. COVER PLATES FOR ELECTRICAL WIRING DEVICES. THE BRYANT ELECTRIC COMPANY, Bridgeport, Conn.
Filed October 21, 1921. Serial No. 154,397. PUBLISHED JANUARY 10, 1922.

155,629. BELT BUCKLES. SAMUEL BUCHSBAUM, Chicago, Ill.
Filed October 4, 1920. Serial No. 137,873. PUBLISHED FEBRUARY 7, 1922.

155,630. LADIES' HATS. BUD HAT COMPANY, INC., New York, N. Y.
Filed July 12, 1921. Serial No. 150,260. PUBLISHED FEBRUARY 7, 1922.

155,631. LADIES' HATS. BUD HAT COMPANY, INC., New York, N. Y.
Filed July 12, 1921. Serial No. 150,261. PUBLISHED FEBRUARY 7, 1922.

155,632. ANTISEPTICS. BUFFALO SPECIALTY CO., Buffalo, N. Y.
Filed October 13, 1921. Serial No. 154,056. PUBLISHED FEBRUARY 7, 1922.

155,633. HATS FOR MEN, WOMEN, AND CHILDREN. THE CALYORK MANUFACTURING CO., Los Angeles, Calif.
Filed June 20, 1921. Serial No. 149,384. PUBLISHED JANUARY 31, 1922.

155,634. DANDRUFF REMEDY. JOSEPH CANGELOSI, New Orleans, La.
Filed October 13, 1921. Serial No. 154,057. PUBLISHED JANUARY 24, 1922.

155,635. A CLEANSING FLUID FOR SILK, WOOL, COTTON, AND OTHER TEXTILE FABRICS. H. A. CASSEBEER, INC., New York, N. Y.
Filed September 23, 1921. Serial No. 153,237. PUBLISHED DECEMBER 27, 1921.

155,636. CERTAIN NAMED CLEANING AND POLISHING PREPARATIONS USED BY DENTISTS. THE L. D. CAULK COMPANY, Milford, Del.
Filed August 6, 1921. Serial No. 151,506. PUBLISHED JANUARY 31, 1922.

155,637. INSECTICIDES. CENTRAL CITY CHEMICAL CO., Chicago, Ill.
Filed September 19, 1921. Serial No. 153,075. PUBLISHED JANUARY 3, 1922.

155,638. STORAGE BATTERY, STORAGE-BATTERY PARTS, AND BATTERY SUPPLIES. CHAIN BATTERY SUPPLY CO., Chicago, Ill.
Filed August 31, 1921. Serial No. 152,414. PUBLISHED JANUARY 31, 1922.

155,639. PHOTOGRAPHIC DEVELOPER. CHEMICALS & BY-PRODUCTS, LIMITED, Watford, England.
Filed September 30, 1921. Serial No. 153,542. PUBLISHED JANUARY 31, 1922.

155,640. TALCUM POWDER, ROUGE, COLD CREAM, TOILET WATER, FACE POWDER, BRILLIANTINE, SACHET, AND PERFUME. CHERAMY, INC., New York, N. Y.
Filed July 14, 1921. Serial No. 150,351. PUBLISHED JANUARY 17, 1922.

155,641. TOILET SOAPS. CHERAMY, INCORPORATED, New York, N. Y.
Filed December 22, 1921. Serial No. 157,022. PUBLISHED FEBRUARY 21, 1922.

155,642. CASEIN PRODUCT OR MATERIAL IN THE FORM OF BLOCKS, SLABS, AND RODS. PETER C. CHRISTENSEN, Orange, N. J.
Filed December 17, 1921. Serial No. 156,822. PUBLISHED MARCH 14, 1922.

155,643. PAPER PATTERNS THAT ARE ADAPTED TO BE TRANSFERRED TO THE GOODS BY RUBBING. W. L. M. CLARK, INCORPORATED, St. Louis, Mo.
Filed November 23, 1921. Serial No. 155,807. PUBLISHED FEBRUARY 7, 1922.

155,644. CERTAIN ARTICLES OF CLOTHING. COHEN, GOLDMAN & CO. INC., New York, N. Y.
Filed May 5, 1921. Serial No. 147,230. PUBLISHED FEBRUARY 7, 1922.

155,645. SOAPS. COLGATE & COMPANY, Jersey City, N. J.
Filed November 30, 1921. Serial No. 156,079. PUBLISHED FEBRUARY 21, 1922.

155,646. LIQUID AND POWDERED PERFUMES. COLGATE & COMPANY, Jersey City, N. J.
Filed November 30, 1921. Serial No. 156,080. PUBLISHED FEBRUARY 28, 1922.

155,647. LIQUID AND POWDERED PERFUMES. COLGATE & COMPANY, Jersey City, N. J.
Filed November 30, 1921. Serial No. 156,081. PUBLISHED FEBRUARY 28, 1922.

155,648. SOAPS. COLGATE & COMPANY, Jersey City, N. J.
Filed November 30, 1921. Serial No. 156,082. PUBLISHED FEBRUARY 21, 1922.

155,649. TOILET POWDER. THE COMFORT POWDER CO., INC., Boston, Mass.
Filed September 12, 1921. Serial No. 152,832. PUBLISHED FEBRUARY 21, 1922.

155,650. TOILET POWDER. THE COMFORT POWDER CO., INC., Boston, Mass.
Filed September 12, 1921. Serial No. 152,833. PUBLISHED JANUARY 31, 1922.

155,651. ELECTRIC STORAGE BATTERIES AND STORAGE-BATTERY PARTS FOR AUTOMOBILE LIGHTING AND IGNITION. THE COMPO BATTERY COMPANY, Defiance, Ohio.
Filed October 28, 1921. Serial No. 154,681. PUBLISHED JANUARY 10, 1922.

155,652. BLUING. CONDENSED BLUING COMPANY, Chicago, Ill.
Filed February 4, 1921. Serial No. 143,161. PUBLISHED FEBRUARY 28, 1922.

155,653. SAFETY PINS. THE CONSOLIDATED SAFETY PIN COMPANY, Bloomfield, N. J.
Filed October 21, 1921. Serial No. 154,398. PUBLISHED JANUARY 3, 1922.

155,654. SAFETY PINS. THE CONSOLIDATED SAFETY PIN COMPANY, Bloomfield, N. J.
Filed October 21, 1921. Serial No. 154,399. PUBLISHED FEBRUARY 28, 1922.

155,655. CERTAIN NAMED ELECTRICAL DEVICES. COTO-COIL COMPANY, Providence, R. I., and Boston, Mass.
Filed September 27, 1921. Serial No. 153,391. PUBLISHED JANUARY 10, 1922.

155,656. BLUING. JAMES R. COUNCIL, Norfolk, Va.
Filed April 22, 1921. Serial No. 146,521. PUBLISHED JANUARY 31, 1922.

155,657. ORANGES IN THEIR NATURAL STATE. COVINA ORANGE GROWERS ASSOCIATION, Covina, Calif.
Filed September 28, 1921. Serial No. 153,439. PUBLISHED MARCH 14, 1922.

155,658. SHOE LACES. CRESCENT BRAID CO. INC., Providence, R. I.
Filed November 5, 1921. Serial No. 155,049. PUBLISHED JANUARY 3, 1922.

155,659. CERTAIN NAMED AROMATIC FILLINGS FOR PILLOWS, CUSHIONS, MATTRESSES, AND THE LIKE. CROSSETT-BARTON COMPANY, Chatteroy, Wash.
Filed January 14, 1922. Serial No. 157,913. PUBLISHED MARCH 7, 1922.

155,660. TOILET WATERS, TOILET CREAMS, COLD CREAM, CUCUMBER AND ALMOND CREAM, AND FACE POWDER. CROWN SUPPLY COMPANY INC., New York, N. Y.
Filed April 28, 1921. Serial No. 146,869. PUBLISHED FEBRUARY 28, 1922.

155,661. CERTAIN NAMED TOILET PREPARATIONS. THE CRYSTAL CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed September 23, 1919. Serial No. 123,021. PUBLISHED JANUARY 17, 1922.

155,662. CHLORINE SOLUTION, FLY SPRAY, SOUR-MILK-TESTING SOLUTION, BACTERIOLOGISTS' CULTURES, ANTISEPTICS, AND CORROSIVE-SUBLIMATE TABLETS. THE DAIRY LABORATORIES, Philadelphia, Pa.
Filed September 24, 1921. Serial No. 153,282. PUBLISHED FEBRUARY 7, 1922.

155,663. BLOOD TONIC. JAMES S. DAVIS, Chicago, Ill.
Filed June 20, 1921. Serial No. 149,392. PUBLISHED JANUARY 24, 1922.

155,664. PHOTOGRAPHIC CHEMICALS AND CHEMICAL PREPARATIONS. DEFENDER PHOTO SUPPLY COMPANY, INC., Rochester, N. Y.
Filed September 30, 1921. Serial No. 153,543. PUBLISHED JANUARY 3, 1922.

155,665. CERTAIN NAMED SOAPS, METAL POLISH, AND LEATHER DRESSINGS. DETROIT WHITE LEAD WORKS, Detroit, Mich.
Filed May 25, 1921. Serial No. 148,218. PUBLISHED DECEMBER 27, 1921.

155,666. MEDICINAL THROAT TABLETS. THE DEVON LABORATORIES CO., Cincinnati, Ohio.
Filed August 5, 1921. Serial No. 151,449. PUBLISHED JANUARY 24, 1922.

155,667. FACE MASSAGE CREAM. LAWRENCE THOMAS DICKERSON, Atlanta, Ga.
Filed July 11, 1921. Serial No. 150,224. PUBLISHED JANUARY 3, 1922.

155,668. A HAIR TONIC. MARY A. B. DISHMOND, Raleigh, N. C.
Filed November 3, 1921. Serial No. 154,964. PUBLISHED FEBRUARY 14, 1922.

155,669. WASH DRESSES, APRONS, AND HOUSE DRESSES. DONNELLY GARMENT COMPANY, Kansas City, Mo.
Filed August 1, 1921. Serial No. 151,208. PUBLISHED JANUARY 31, 1922.

155,670. MATTRESSES. JOHN DONOHUE & SONS, INC., Paterson, N. J.
Filed March 24, 1921. Serial No. 145,157. PUBLISHED JANUARY 3, 1922.

155,671. GRASS AND FIELD SEEDS. DOUGHTEN SEED COMPANY, Jersey City, N. J.
Filed December 28, 1921. Serial No. 157,212. PUBLISHED MARCH 14, 1922.

155,672. GRASS AND FIELD SEEDS. DOUGHTEN SEED COMPANY, Jersey City, N. J.
Filed December 28, 1921. Serial No. 157,213. PUBLISHED MARCH 14, 1922.

155,673. A CLEANING COMPOUND FOR THE HANDS. FRED C. DUNLAP, Kansas City, Mo.
Filed December 15, 1921. Serial No. 156,737. PUBLISHED FEBRUARY 21, 1922.

155,674. WORK PANTS, JACKETS, AND OVERALLS. HYMAN EDELMAN, Chicago, Ill.
Filed May 27, 1921. Serial No. 148,323. PUBLISHED JANUARY 24, 1922.

155,675. SAND AND GRAVEL OF VARIOUS KINDS. EAU CLAIRE SAND & GRAVEL CO., Eau Claire, Wis.
Filed September 20, 1921. Serial No. 153,132. PUBLISHED FEBRUARY 7, 1922.

155,676. CABINETS FOR REGISTERS. THE EGRY REGISTER COMPANY, Dayton, Ohio.
Filed December 5, 1921. Serial No. 156,268. PUBLISHED FEBRUARY 7, 1922.

155,677. PREPARATION FOR CERTAIN NAMED PURPOSES. JACOB EISENBERG, Binghamton, N. Y.
Filed July 9, 1920. Serial No. 134,745. PUBLISHED FEBRUARY 7, 1922.

155,678. FABRICATED MATERIAL FOR ELECTRICAL INSULATION AND CERTAIN NAMED INSULATION DEVICES. ELECTROSE MANUFACTURING COMPANY, Brooklyn, N. Y.
Filed April 8, 1921. Serial No. 145,886. PUBLISHED FEBRUARY 14, 1922.

155,679. HAIRPINS. EMPIRE NOTION CO., New York, N. Y.
Filed October 4, 1921. Serial No. 153,719. PUBLISHED JANUARY 3, 1922.

155,680. LIQUID BATTERY SOLUTION. ENERGY ELECTROLYTE CO., Minneapolis, Minn.
Filed October 3, 1921. Serial No. 153,653. PUBLISHED JANUARY 17, 1922.

155,681. FRESH APPLES. EQUITY GROWERES & SHIPPERS ASSOCIATION, Hamilton, Mont.
Filed October 8, 1921. Serial No. 153,877. PUBLISHED FEBRUARY 21, 1922.

155,682. ELECTRIC VACUUM CLEANERS AND PARTS THEREOF. ELECTRIC VACUUM CLEANER COMPANY, INC., Cleveland, Ohio.
Filed August 10, 1921. Serial No. 151,616. PUBLISHED FEBRUARY 21, 1922.

155,683. HAIR CURLERS. THE ELECTRO RADITE COMPANY, Westport, Conn.
Filed November 23, 1921. Serial No. 155,811. PUBLISHED JANUARY 3, 1922.

155,684. CANDY. THE EUCLID CANDY COMPANY, Cleveland, Ohio.
Filed October 20, 1921. Serial No. 154,355. PUBLISHED FEBRUARY 28, 1922.

155,685. HEALING SALVES FOR WOUNDS, CUTS, AND BRUISES. NICKOLAI FARYNYK, Allentown, Pa.
Filed August 11, 1921. Serial No. 151,668. PUBLISHED JANUARY 17, 1922.

155,686. METAL WINDOW SASHES. FEDERAL BRIDGE AND STRUCTURAL CO., Waukesha, Wis.
Filed October 3, 1921. Serial No. 153,655. PUBLISHED DECEMBER 27, 1921.

155,687. LEATHER AND SKINS, WROUGHT AND UNWROUGHT. GEORGE FELL & SON LIMITED, Bolton, England.
Filed January 23, 1922. Serial No. 158,305. PUBLISHED MARCH 7, 1922.

155,688. ELECTRIC SIGNAL HOLDERS AND TRAFFIC-SIGNAL DEVICES. ALAN R. FERGUSSON, Buffalo, N. Y.
Filed October 11, 1920. Serial No. 138,164. PUBLISHED APRIL 5, 1921.

155,689. ELECTRIC INSULATING COMPOUND. THE FORMICA INSULATION COMPANY, Cincinnati, Ohio.
Filed October 15, 1921. Serial No. 154,140. PUBLISHED JANUARY 10, 1922.

155,690. CERTAIN NAMED ELECTRICAL APPARATUS. THE GAMEWELL FIRE ALARM TELEGRAPH COMPANY, New York, N. Y.
Filed October 27, 1921. Serial No. 154,646. PUBLISHED FEBRUARY 14, 1922.

155,691. A GENERAL CONDITIONER FOR HORSES, CATTLE, HOGS, AND CHICKENS. WILLIAM GAMLIN, London, Ohio.
Filed October 4, 1920. Serial No. 137,877. PUBLISHED FEBRUARY 7, 1922.

155,692. MATTRESSES. GANGELHOFF BROS., Minneapolis, Minn.
Filed October 3, 1921. Serial No. 153,660. PUBLISHED JANUARY 3, 1922.

155,693. MEDICINAL TONIC FOR THE TREATMENT OF BLOOD, SKIN, AND BLADDER DISEASES. ANDREW JACKSON GEORGE, Kansas City, Kans.
Filed October 3, 1921. Serial No. 153,661. PUBLISHED JANUARY 3, 1922.

155,694. TOILET PREPARATIONS—NAMELY, A HAIR TONIC. THE GERALDINE COMPANY, Boston, Mass.
Filed June 25, 1920. Serial No. 134,229. PUBLISHED FEBRUARY 7, 1922.

155,695. MEDICAL PREPARATION FOR DEODORIZING THE FEET, ELIMINATING PERSPIRATION, FATIGUE, CORNS, AND BUNIONS. NESTOR J. GETLEN, Denver, Colo.
Filed May 19, 1921. Serial No. 147,925. PUBLISHED JANUARY 31, 1922.

155,696. HAIR DYES, HAIR COLOR RESTORERS, AND HAIR TONICS. BENJAMIN T. GOLDMAN, St. Paul, Minn.
Filed June 12, 1920. Serial No. 133,621. PUBLISHED JANUARY 24, 1922.

155,697. CERTAIN NAMED TOILET PREPARATIONS AND CHEMICALS USED IN THE MANUFACTURE OF THE SAME. GOMEZ & SLOAN, INC., New York, N. Y.
Filed September 27, 1921. Serial No. 153,400. PUBLISHED JANUARY 3, 1922.

155,698. SHOE POLISH. GRIFFIN MANUFACTURING COMPANY INC., New York, N. Y.
Filed August 16, 1917. Serial No. 105,696. PUBLISHED FEBRUARY 7, 1922.

155,699. CERTAIN NAMED CHEMICAL, MEDICINAL AND PHARMACEUTICAL PREPARATIONS. GEORGE H. GUY, Seattle, Wash.
Filed September 17, 1921. Serial No. 153,037. PUBLISHED JANUARY 31, 1922.

155,700. A RUST SOLVENT. HALSTEAD SPECIALTIES COMPANY, San Francisco, Calif.
Filed September 15, 1920. Serial No. 137,223. PUBLISHED FEBRUARY 14, 1922.

155,701. MEN'S, WOMEN'S, AND CHILDREN'S HATS. HAMMELL-NEUMAN CO., Philadelphia, Pa.
Filed September 27, 1920. Serial No. 137,662. PUBLISHED JANUARY 31, 1922.

155,702. ONE, TWO, AND THREE PIECE UNDERGARMENTS OF KNITTED OR WOVEN MATERIAL. P. H. HANES KNITTING COMPANY, Winston-Salem, N. C.
Filed April 22, 1921. Serial No. 146,548. PUBLISHED FEBRUARY 7, 1922.

155,703. PREPARATION USED IN THE TREATMENT OF SORE, WEAK, TIRED, STRAINED, AND INFLAMED EYES. HARRY A. HANSEN, Ashland, Wis.
Filed May 7, 1921. Serial No. 147,348. PUBLISHED JANUARY 31, 1922.

155,704. METAL POLISH. B. HELLER & CO., Chicago, Ill.
Filed September 24, 1921. Serial No. 153,289. PUBLISHED JANUARY 24, 1922.

155,705. SALAD OIL—VIZ., COTTONSEED OIL FLAVORED WITH OLIVE OIL. MORRIS HELLER, New York, N. Y.
Filed September 17, 1921. Serial No. 153,038. PUBLISHED FEBRUARY 14, 1922.

155,706. SALAD OIL—VIZ., COTTONSEED OIL FLAVORED WITH OLIVE OIL. MORRIS HELLER, New York, N. Y.
Filed September 17, 1921. Serial No. 153,039. PUBLISHED FEBRUARY 14, 1922.

155,707. TEXTILE RUGS. WM. HENDERSON & CO., Philadelphia, Pa.
Filed February 26, 1921. Serial No. 144,087. PUBLISHED JANUARY 31, 1922.

155,708. CERTAIN NAMED PREPARATIONS OR MEDICINES. THE HENEPH CO., INC., Kingston, N. Y.
Filed April 2, 1921. Serial No. 145,622. PUBLISHED FEBRUARY 7, 1922.

155,709. PERFUME. ABRAM W. HERBST, New York, N. Y.
Filed October 12, 1921. Serial No. 154,028. PUBLISHED JANUARY 24, 1922.

155,710. PERFUME. ABRAM W. HERBST, New York, N. Y.
Filed October 12, 1921. Serial No. 154,029. PUBLISHED JANUARY 24, 1922.

155,711. PERFUME. ABRAM W. HERBST, New York, N. Y.
Filed October 12, 1921. Serial No. 154,030. PUBLISHED JANUARY 24, 1922.

155,712. NARROW BRAIDS, ELASTIC BRAIDS, AND SHOE LACES. THE HILL AND LACROSS COMPANY, Cranston, R. I.
Filed September 6, 1921. Serial No. 152,622. PUBLISHED DECEMBER 27, 1921.

155,713. ELECTRIC SIGNAL LAMPS FOR AUTOMOBILES. FRANK HITCHCOCK, Cleveland, Ohio.
Filed November 10, 1921. Serial No. 155,261. PUBLISHED FEBRUARY 7, 1922.

155,714. FOOT POWDER. HOFFMAN & PETERSON, Priest River, Idaho.
Filed October 7, 1921. Serial No. 153,854. PUBLISHED JANUARY 31, 1922.

155,715. METAL POLISH, OIL SOAP, ROADSIDE HAND CLEANER, VALVE-GRINDING COMPOUND, AND GLASS-CLEANING PASTE. THE R. M. HOLLINGSHEAD CO., Camden, N. J.
Filed June 14, 1921. Serial No. 149,134. PUBLISHED DECEMBER 27, 1921.

155,716. SOLDERING COMPOUND IN THE NATURE OF A FLUX. THE R. M. HOLLINGSHEAD CO., Camden, N. J.
Filed October 29, 1921. Serial No. 154,744. PUBLISHED FEBRUARY 28, 1922.

155,717. CERTAIN ARTICLES OF CLOTHING. WILLIAM HOLLINS & COMPANY, LIMITED, London and Mansfield, England.
Filed June 30, 1919. Serial No. 120,112. PUBLISHED DECEMBER 21, 1920.

155,718. CLEANING AND POLISHING POWDER. A. C. HORN CO., Long Island City, N. Y.
Filed August 6, 1919. Serial No. 121,303. PUBLISHED FEBRUARY 7, 1922.

155,719. TOOTH PASTE. KING C. HUDSON, Chicago, Ill.
Filed November 18, 1921. Serial No. 155,561. PUBLISHED FEBRUARY 21, 1922.

155,720. TEXTILE WEBBING OF NARROW WEAVE SOLD ON SPOOLS BY THE GROSS LOTS AND IN THE PIECE. HUDSON NARROW FABRIC CO., Hudson, Mass.
Filed September 7, 1920. Serial No. 136,888. PUBLISHED JANUARY 24, 1922.

155,721. FLASH LIGHTS, SEARCHLIGHTS, AND SPOT LIGHTS. ROBERT L. HUNTER, Norfolk, Va.
Filed November 5, 1921. Serial No. 155,059. PUBLISHED JANUARY 31, 1922.

155,722. SOAP AND BENZENE SOAP. INNIS, SPEIDEN & CO., INC., New York, N. Y.
Filed October 18, 1921. Serial No. 154,274. PUBLISHED DECEMBER 27, 1921.

155,723. STORE WALL CASES, SHOW CASES, AND INTERCHANGEABLE SHELVING. THE INTERCHANGEABLE WALL CASE COMPANY, Detroit, Mich.
Filed March 28, 1921. Serial No. 145,458. PUBLISHED DECEMBER 27, 1921.

155,724. FELT MATTRESSES. INTERNATIONAL BEDDING CO. INC., Baltimore, Md.
Filed June 25, 1920. Serial No. 134,198. PUBLISHED DECEMBER 27, 1921.

155,725. FELT MATTRESSES. INTERNATIONAL BEDDING CO. INC., Baltimore, Md.
Filed June 25, 1920. Serial No. 134,199. PUBLISHED DECEMBER 27, 1921.

155,726. CERTAIN NAMED TALKING MACHINES AND PARTS AND SUPPLIES THEREFOR. INTERNATIONAL TALKING MACHINE COMPANY, Berlin-Weissensee, Germany.
Filed August 24, 1920. Serial No. 136,417. PUBLISHED MARCH 22, 1921.

155,727. LEATHER. J. H. JACKSON COMPANY, INC., New York, N. Y.
Filed December 10, 1921. Serial No. 156,533. PUBLISHED FEBRUARY 7, 1922.

155,728. A CHEMICALLY-TREATED CLOTH FOR POLISHING METALS, HARD RUBBER, AND GLASS. CHARLES FRANKLIN JAMESON, Boston, Mass.
Filed August 20, 1921. Serial No. 151,990. PUBLISHED DECEMBER 27, 1921.

155,729. FACE POWDER, COLD CREAM, VANISHING CREAM, ROUGE. JAMEELAH JANE CORPORATION, Chicago, Ill.
Filed November 8, 1921. Serial No. 155,176. PUBLISHED FEBRUARY 14, 1922.

155,730. [WITHDRAWN.]

155,731. ELECTRIC SPOT LIGHTS. CHARLES KAUFMANN & SONS, Santa Ana, Calif.
Filed June 7, 1921. Serial No. 148,802. PUBLISHED JANUARY 10, 1922.

155,732. KNEE PADS FOR MINERS. EDWIN N. KAUFFMAN, Mahaffey, Pa.
Filed June 30, 1921. Serial No. 149,854. PUBLISHED FEBRUARY 7, 1922.

155,733. GIRLS', INTERMEDIATES', JUNIORS', AND MISSES' DRESSES. EDWIN KESSLER, New York, N. Y.
Filed August 3, 1921. Serial No. 151,322. PUBLISHED JANUARY 31, 1922.

155,734. SCOURING CLOTHS. RUSSELL B. KINGMAN, Orange, N. J., assignor to The Chore Utensils Corporation of America, Orange, N. J.
Filed November 15, 1921. Serial No. 155,411. PUBLISHED FEBRUARY 28, 1922.

155,735. CLEANING COMPOUND FOR WALLS, CEILINGS, FLOORS, AND PAINTED SURFACES OR GENERAL PURPOSES. KLEE-NUP MFG. CO., Hancock, Mich.
Filed July 12, 1921. Serial No. 150,277. PUBLISHED JANUARY 10, 1922.

155,736. ROOF CEMENT. KLING-TITE PRODUCTS CO., Chicago, Ill.
Filed September 28, 1921. Serial No. 153,462. PUBLISHED DECEMBER 27, 1921.

155,737. A MEDICINAL POWDER FOR RHEUMATISM, GOUT, LUMBAGO, AND ALL MUSCULAR PAINS. MARTIN C. KOPF, Milwaukee, Wis.
Filed October 31, 1921. Serial No. 154,800. PUBLISHED FEBRUARY 28, 1922.

155,738. ELECTRIC LOCOMOTIVE AND ELECTRIC TRACTORS. KOPPEL INDUSTRIAL CAR & EQUIPMENT COMPANY, Koppel and Pittsburgh, Pa.
Filed May 13, 1920. Serial No. 132,391. PUBLISHED FEBRUARY 14, 1922.

155,739. MIDDY BLOUSES. KRAMER, SAUBER & KESTING, INCORPORATED, Baltimore, Md.
Filed February 17, 1921. Serial No. 143,695. PUBLISHED FEBRUARY 7, 1922.

155,740. A SHAMPOO FOR THE HAIR AND SCALP. HENRY H. KUNTZMANN, St. Louis, Mo.
Filed November 7, 1921. Serial No. 155,099. PUBLISHED FEBRUARY 14, 1922.

155,741. MEN'S OUTER CLOTHING—VIZ, SUITS AND OVERCOATS. B. KUPPENHEIMER AND CO., Chicago, Ill.
Filed May 23, 1921. Serial No. 148,077. PUBLISHED FEBRUARY 7, 1922.

155,742. A MEDICAL PREPARATION FOR SORE THROAT, CUTS, SORES, CHAPPED HANDS, SORE LIPS, ETC. THE KWIK MFG. CO., Topeka, Kans.
Filed August 23, 1921. Serial No. 152,077. PUBLISHED JANUARY 3, 1922.

155,743. MECHANICAL SHOVELS. LAKE SUPERIOR LOADER CO., Duluth, Minn.
Filed December 21, 1921. Serial No. 157,014. PUBLICATION WAIVED.

155,744. FRESH CITRUS FRUITS. LAKE WALES CITRUS GROWERS ASSOCIATION, Lake Wales, Fla.
Filed October 7, 1921. Serial No. 153,860. PUBLISHED MARCH 14, 1922.

155,745. FRESH CITRUS FRUITS. LAKE WALES CITRUS GROWERS ASSOCIATION, Lake Wales, Fla.
Filed October 7, 1921. Serial No. 153,861. PUBLISHED MARCH 14, 1922.

155,746. COMPOUND FOR TREATING DROPSY. ISAAC N. LEASURE, Chicago, Ill.
Filed October 14, 1921. Serial No. 154,086. PUBLISHED JANUARY 8, 1922.

155,747. COSMETIC TOILET PREPARATION—NAMELY, A LOTION TO BE USED AS A SUBSTITUTE FOR BAY RUM. LENGFELD'S PHARMACY, San Francisco, Calif.
Filed August 29, 1921. Serial No. 152,338. PUBLISHED JANUARY 17, 1922.

155,748. A BALM FOR CERTAIN NAMED PURPOSES. A. F. LEONARD & CO., Jacksonville, Fla.
Filed July 13, 1921. Serial No. 150,320. PUBLISHED JANUARY 31, 1922.

155,749. HOSIERY. BENJAMIN ALVA LEVINE, Brooklyn, N. Y.
Filed September 29, 1920. Serial No. 137,739. PUBLISHED JANUARY 31, 1922.

155,750. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY MADE OF SILK, COTTON, WOOL, AND OTHER FABRICS. DAVID LEVINE & SONS, New York, N. Y.
Filed April 27, 1921. Serial No. 146,831. PUBLISHED FEBRUARY 7, 1922.

155,751. CHILL REMEDIES. WILSON R. LITTLE, Macon, Miss.
Filed October 14, 1921. Serial No. 154,085. PUBLISHED JANUARY 31, 1922.

155,752. MATTRESSES. C. F. LOTTMAN & SONS, Houston, Tex.
Filed August 25, 1921. Serial No. 152,177. PUBLISHED FEBRUARY 21, 1922.

155,753. COTTON, WOOLEN, AND SILK HOSIERY FOR MEN, WOMEN, AND CHILDREN. LOUISVILLE KNITTING COMPANY, INC., Louisville, Ky.
Filed August 2, 1921. Serial No. 151,275. PUBLISHED JANUARY 31, 1922.

155,754. ANTISEPTIC PREPARATIONS. LYKO MEDICINE COMPANY, Dover, Del., and Kansas City, Mo.
Filed February 26, 1921. Serial No. 144,093. PUBLISHED JANUARY 24, 1922.

155,755. TOILET SOAP. MINNIE LYNCH, Orange, N. J.
Filed October 13, 1921. Serial No. 154,060. PUBLISHED JANUARY 10, 1922.

155,756. PILE REMEDY. WILLIAM H. MCABEE, Baltimore, Md.
Filed April 26, 1920. Serial No. 131,646. PUBLISHED JANUARY 3, 1922.

155,757. ELECTRIC BATTERIES. MAGNO STORAGE BATTERY CO., Brooklyn, N. Y., assignor to Magno Storage Battery Corporation, New York, N. Y., a Corp. of Delaware.
Filed November 2, 1920. Serial No. 139,083. PUBLISHED FEBRUARY 14, 1922.

155,758. PLATE POWDER. MAPPIN & WEBB LIMITED, London and Sheffield, England.
Filed November 18, 1921. Serial No. 155,568. PUBLISHED FEBRUARY 28, 1922.

155,759. BELT BUCKLES NOT OF PRECIOUS METALS. THE MARATHON TIRE & RUBBER COMPANY, Cuyahoga Falls, Ohio.
Filed April 15, 1921. Serial No. 146,224. PUBLISHED DECEMBER 27, 1921.

155,760. LEATHER, FABRIC, OR RUBBER BELTS FOR SUPPORTING OUTER GARMENTS. THE MARATHON TIRE & RUBBER COMPANY, Cuyahoga Falls, Ohio.
Filed April 25, 1921. Serial No. 146,720. PUBLISHED FEBRUARY 7, 1922.

155,761. BELT DRESSING. MARSHALL OIL COMPANY OF IOWA, Marshalltown, Iowa.
Filed August 8, 1921. Serial No. 151,553. PUBLISHED DECEMBER 27, 1921.

155,762. DISINFECTANTS AND DEODORANTS. MILTON MEYER, Newark, N. J.
Filed October 5, 1921. Serial No. 153,776. PUBLISHED JANUARY 17, 1922.

155,763. INSECTICIDES. MEYERS & KANER, New York, N. Y.
Filed October 4, 1921. Serial No. 153,736. PUBLISHED JANUARY 3, 1922.

155,764. CERTAIN NAMED CONSTRUCTION MATERIAL. MIDWEST STEEL & SUPPLY COMPANY, INC., New York, N. Y.
Filed October 26, 1921. Serial No. 154,609. PUBLISHED DECEMBER 27, 1921.

155,765. SHAMPOO. MISTL LABORATORY CO., St. Louis, Mo.
Filed August 22, 1921. Serial No. 152,010. PUBLISHED JANUARY 17, 1922.

155,766. INHALING COMPOUND FOR THE PROTECTION OF FIREMEN AND OTHERS. WILLIAM M. MITCHELL, Louisville, Ky.
Filed November 3, 1921. Serial No. 154,985. PUBLISHED FEBRUARY 7, 1922.

155,767. PREPARATION FOR RHEUMATISM, LUMBAGO, NEURITIS, AND LIKE AILMENTS. CHARLES H. MOORE, Northport, Wash.
Filed November 2, 1921. Serial No. 154,925. PUBLISHED FEBRUARY 28, 1922.

155,768. EYEWATER. WILLIAM A. MORGAN, Atlanta, Ga.
Filed November 21, 1921. Serial No. 155,702. PUBLISHED FEBRUARY 28, 1922.

155,769. COMPOSITION FOR CLEANING METAL WARE, CLOTHING, AND GLOVES. M-P-CO., Concord, N. H.
Filed October 10, 1921. Serial No. 153,945. PUBLISHED JANUARY 31, 1922.

155,770. WOMEN'S SILK DRESSES, SKIRTS, WAISTS, PETTICOATS, BLOOMERS, CORSET COVERS, CAMISOLES, NIGHTGOWNS, PYJAMAS, DRESSING GOWNS, COMBINATIONS, AND UNDERWEAR MADE OF SILK. J. A. MIGEL INC., New York, N. Y.
Filed June 18, 1921. Serial No. 149,342. PUBLISHED DECEMBER 20, 1921.

155,771. DRY BATTERIES. NATIONAL CARBON COMPANY, INC., New York, N. Y.
Filed May 7, 1921. Serial No. 147,372. PUBLISHED JANUARY 17, 1922.

155,772. SHOE POLISH. NATIONAL SHOE POLISH MFG. CO., Philadelphia, Pa.
Filed October 27, 1921. Serial No. 154,659. PUBLISHED JANUARY 31, 1922.

155,773. CANDY. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass.
Filed October 31, 1921. Serial No. 154,807. PUBLISHED FEBRUARY 28, 1922.

155,774. CANDY. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass.
Filed October 31, 1921. Serial No. 154,808. PUBLISHED MARCH 7, 1922.

155,775. CANDY. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass.
Filed October 31, 1921. Serial No. 154,809. PUBLISHED MARCH 7, 1922.

155,776. CANDY. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass.
Filed October 31, 1921. Serial No. 154,811. PUBLISHED MARCH 7, 1922.

155,777. CANDY. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass.
Filed October 31, 1921. Serial No. 154,814. PUBLISHED MARCH 7, 1922.

155,778. CANDY. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass.
Filed October 31, 1921. Serial No. 154,817. PUBLISHED MARCH 7, 1922.

155,779. CANDY. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass.
Filed October 31, 1921. Serial No. 154,821. PUBLISHED MARCH 14, 1922.

155,780. CANDY. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass.
Filed October 31, 1921. Serial No. 154,836. PUBLISHED FEBRUARY 28, 1922.

155,781. CANDY. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass.
Filed October 31, 1921. Serial No. 154,838. PUBLISHED MARCH 7, 1922.

155,782. A CHEMICAL PREPARATION USED AS A DISINFECTANT, GERMICIDE, DEODORANT, AND INSECTICIDE. NEW SOUTHERN DRUG COMPANY, INCORPORATED, Shreveport, La.
Filed November 5, 1921. Serial No. 155,068. PUBLISHED FEBRUARY 28, 1922.

155,783. RAINCOATS AND SPORTS JACKETS FOR MEN, WOMEN, AND JUVENILES, IN PROOFED CLOTH. NICHOLSON'S RAINCOAT COMPANY, LIMITED, St. Albans, England.
Filed December 7, 1920. Serial No. 140,741. PUBLISHED JANUARY 31, 1922.

155,784. RAINCOATS AND SPORTS JACKETS FOR MEN, WOMEN, AND JUVENILES, IN PROOFED CLOTHS. NICHOLSON'S RAINCOAT COMPANY, LIMITED, St. Albans, England.
Filed December 7, 1920. Serial No. 140,742. PUBLISHED JANUARY 31, 1922.

155,785. SPARK PLUGS. NILES MANUFACTURING COMPANY, Niles, Mich.
Filed August 30, 1921. Serial No. 152,380. PUBLISHED FEBRUARY 14, 1922.

155,786. FURNITURE—NAMELY, COMBINATION DESKS AND DRESSING CASES. CLYDE L. NORQUIST, Jamestown, N. Y.
Filed May 26, 1921. Serial No. 148,294. PUBLISHED DECEMBER 27, 1921.

155,787. BATHING LINIMENT FOR EXTERNAL USE ONLY. THE NORWICH PHARMACAL COMPANY, Norwich, N. Y.
Filed October 12, 1921. Serial No. 154,042. PUBLISHED JANUARY 31, 1922.

155,788. STORAGE BATTERIES. W. S. NOTT COMPANY, Minneapolis, Minn.
Filed November 3, 1921. Serial No. 154,988. PUBLISHED JANUARY 31, 1922.

155,789. CANDIES. THE NUNNALLY COMPANY, Atlanta, Ga.
Filed September 28, 1921. Serial No. 153,469. PUBLISHED MARCH 14, 1922.

155,790. LADIES', MISSES', AND CHILDREN'S HATS. OGUS, RABINOVITCH & OGUS CO., Chicago, Ill.
Filed June 21, 1921. Serial No. 149,477. PUBLISHED JANUARY 31, 1922.

155,791. A SEMISOLID DRESSING FOR LEATHER. ANTHONY OVERTON, Chicago, Ill.
Filed May 25, 1921. Serial No. 148,235. PUBLISHED DECEMBER 27, 1921.

155,792. FANS FOR PERSONAL USE. OVINGTON BROS. COMPANY, New York, N. Y.
Filed January 18, 1921. Serial No. 142,298. PUBLISHED FEBRUARY 21, 1922.

155,793. WOODEN DOORS. PAINE LUMBER COMPANY, LIMITED, Oshkosh, Wis.
Filed September 21, 1921. Serial No. 153,185. PUBLISHED MARCH 14, 1922.

155,794. ANTIBILIOUS PILLS. JOHN G. PARKS, Goldsboro, N. C.
Filed June 7, 1921. Serial No. 148,815. PUBLISHED FEBRUARY 7, 1922.

155,795. LIQUID MEDICINE COMPOSED OF VARIOUS LIQUIDS AND VEGETABLE PRODUCTS USED FOR THE TREATMENT OF RHEUMATISM, PILES, NERVOUSNESS, SOME DISEASES OF THE BLOOD AND KIDNEYS. SARAH PEMBROOKE, Los Angeles, Calif.
Filed December 22, 1920. Serial No. 141,431. PUBLISHED FEBRUARY 28, 1922.

155,796. A MEDICAL PREPARATION FOR TREATING FEET AGAINST SWEAT SECRETIONS. ALFRED G. PETKUS, Manchester, N. H.
Filed August 31, 1921. Serial No. 152,446. PUBLISHED JANUARY 17, 1922.

155,797. PREPARATION FOR THE TREATMENT OF LEUCORRHEA AND THE CLEANSING OF THE ENTIRE VAGINA. ARTHUR PETRIE, Oklahoma, Okla.
Filed September 17, 1921. Serial No. 153,049. PUBLISHED JANUARY 3, 1922.

155,798. MEDICINE FOR GOITER. ANNA PLOTZ, Chicago, Ill.
Filed November 7, 1921. Serial No. 155,117. PUBLISHED FEBRUARY 28, 1922.

155,799. CERTAIN NAMED CLEANING PREPARATIONS. NORMAN T. POOL, Atlanta, Ga.
Filed November 12, 1921. Serial No. 155,317. PUBLISHED FEBRUARY 21, 1922.

155,800. A PREPARATION FOR HAY FEVERS, ASTHMA, COLDS, AND COUGHS. MAX POLLATSEK, Columbus, Ohio.
Filed August 24, 1921. Serial No. 152,137. PUBLISHED JANUARY 24, 1922.

155,801. SOAP. THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio.
Filed December 5, 1921. Serial No. 156,295. PUBLISHED FEBRUARY 21, 1922.

155,802. VACUUM TUBES AND VALVES. RADIO CORPORATION OF AMERICA, New York, N. Y.
Filed November 16, 1921. Serial No. 155,451. PUBLISHED FEBRUARY 7, 1922.

155,803. VACUUM TUBES AND VALVES. RADIO CORPORATION OF AMERICA, New York, N. Y.
Filed November 16, 1921. Serial No. 155,452. PUBLISHED FEBRUARY 7, 1922.

155,804. VACUUM TUBES AND VALVES. RADIO CORPORATION OF AMERICA, New York, N. Y.
Filed November 16, 1921. Serial No. 155,453. PUBLISHED FEBRUARY 7, 1922.

155,805. VACUUM TUBES AND VALVES. RADIO CORPORATION OF AMERICA, New York, N. Y.
Filed November 16, 1921. Serial No. 155,454. PUBLISHED FEBRUARY 7, 1922.

155,806. MIXTURE FOR THE TREATMENT OF PNEUMONIA, INFLUENZA, BRONCHITIS, ASTHMA, DIPHTHERIA, COUGHS, COLDS, AND SORE THROAT. JOHN C. RAVEN, Astoria, N. Y.
Filed January 5, 1922. Serial No. 157,537. PUBLISHED FEBRUARY 7, 1922.

155,807. BOYS' BLOUSES, SHIRTS, AND PLAY SUITS. RELIANCE MANUFACTURING COMPANY, Chicago, Ill.
Filed October 6, 1920. Serial No. 138,020. PUBLISHED JANUARY 31, 1922.

155,808. FILING CABINETS, BEING OFFICE FURNITURE. RONEO LIMITED, London, England.
Filed December 13, 1921. Serial No. 156,658. PUBLISHED FEBRUARY 7, 1922.

155,809. MEN'S ULSTERS AND OVERCOATS. ROSENBERG BROS. & CO., Rochester, N. Y.
Filed July 2, 1921. Serial No. 149,977. PUBLISHED FEBRUARY 7, 1922.

155,810. LADIES', MEN'S, AND CHILDREN'S HOSE. BERNARD ROSENTHAL, Williamsport, Pa.
Filed August 3, 1921. Serial No. 151,332. PUBLISHED JANUARY 31, 1922.

155,811. MEDICINE USED IN THE TREATMENT OF PNEUMONIA. SALVATOR RUOCCO, New York, N. Y.
Filed November 22, 1921. Serial No. 155,772. PUBLISHED FEBRUARY 21, 1922.

155,812. DENTIFRICE. W. M. RUTHRAUFF COMPANY, Philadelphia, Pa.
Filed November 19, 1921. Serial No. 155,637. PUBLISHED FEBRUARY 21, 1922.

155,813. A WATER-GLASS EGG PRESERVER. RUTLAND FIRE CLAY CO., Rutland, Vt.
Filed November 3, 1921. Serial No. 154,997. PUBLISHED FEBRUARY 14, 1922.

155,814. FLASH LIGHTS AND BATTERIES. R. V. G. COMPANY, INC., Brooklyn, N. Y.
Filed November 8, 1921. Serial No. 155,190. PUBLISHED FEBRUARY 7, 1922.

155,815. SALVE FOR TREATMENT OF INFLAMMATORY AILMENTS. THE SAL-CURA CO., New York, N. Y.
Filed September 22, 1921. Serial No. 153,227. PUBLISHED JANUARY 3, 1922.

155,816. LIQUID SEPARATORS AND CHURNS. ELLEN MARGARETA SALENIUS, Sundyberg, Stockholm, Sweden.
Filed October 16, 1920. Serial No. 138,412. PUBLISHED FEBURARY 7, 1922.

155,817. SAFETY PINS. SAMSTAG & HILDER BROS., New York, N. Y.
Filed November 19, 1921. Serial No. 155,646. PUBLISHED JANUARY 3, 1922.

155,818. SULPHUR HAVING INSECTICIDAL PROPERTIES. SAN FRANCISCO SULPHUR CO., San Francisco, Calif.
Filed June 30, 1920. Serial No. 134,437. PUBLISHED JANUARY 24, 1922.

155,819. HAIR WAVERS. JOSEPH W. SCHLOSS CO., New York, N. Y.
Filed October 27, 1921. Serial No. 154,666. PUBLISHED JANUARY 3, 1922.

155,820. LAXATIVE PREPARATIONS. SCHLOTZ-MUTUAL DRUG COMPANY, Denver, Colo.
Filed November 21, 1921. Serial No. 155,712. PUBLISHED FEBRUARY 28, 1922.

155,821. AN ANTISEPTIC MEDICINE. FRANCIS W. SCHOPPENHORST, Indianapolis, Ind.
Filed July 25, 1921. Serial No. 150,938. PUBLISHED FEBRUARY 14, 1922.

155,822. MATTRESSES. JOHN A. SCHWARZ, INC., New York and Brooklyn, N. Y.
Filed June 18, 1920. Serial No. 133,900. PUBLISHED FEBRUARY 21, 1922.

155,823. CERTAIN ARTICLES OF CLOTHING. JEAN FRÉDERIC SCHWEIZER-CAILLAUX, Vincennes, France.
Filed May 10, 1921. Serial No. 147,532. PUBLISHED FEBRUARY 7, 1922.

155,824. SOAP. SCOTCH-TONE COMPANY, Oklahoma, Okla.
Filed November 15, 1921. Serial No. 155,420. PUBLISHED FEBRUARY 21, 1922.

155,825. A GENERAL TONIC FOR THE LIVER, NERVES, AND STOMACH. SCRANTON DRUG MANUFACTURING CO., Scranton, Pa.
Filed June 23, 1920. Serial No. 134,096. PUBLISHED FEBRUARY 8, 1921.

155,826. ELECTRICAL IGNITION COILS AND ELECTRICAL CONDENSERS. SECURITY MANUFACTURING COMPANY, Brooklyn, N. Y.
Filed November 19, 1921. Serial No. 155,645. PUBLISHED FEBRUARY 7, 1922.

155,827. A LINIMENT FOR THE RELIEF AND REDUCTION OF GOITER. SEDALIA MEDICINE COMPANY, Sedalia, Mo.
Filed September 29, 1921. Serial No. 153,522. PUBLISHED JANUARY 3, 1922.

155,828. SOAP AND OTHER CERTAIN NAMED CLEANING PREPARATIONS. JOHN SEXTON AND COMPANY, Chicago, Ill.
Filed October 1, 1921. Serial No. 153,622. PUBLISHED FEBRUARY 7, 1922.

155,829. PREPARED ROOFING AND ROOF CEMENT. JOHN SEXTON AND COMPANY, Chicago, Ill.
Filed October 1, 1921. Serial No. 153,623. PUBLISHED FEBRUARY 7, 1922.

155,830. DRESSES. SHAPERO, LEWIS & CO., New York, N. Y.
Filed June 25, 1921. Serial No. 149,655. PUBLISHED FEBRUARY 7, 1922.

155,831. SOAP (DRY POWDERED PASTE, SEMI-PASTE, FLAKE, LIQUID, AND OTHER CONSISTENCIES.) THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio.
Filed November 15, 1921. Serial No. 155,421. PUBLISHED FEBRUARY 28, 1922.

155,832. CERTAIN NAMED CLEANSING PREPARATIONS. SHI-NUP PRODUCTS COMPANY, Racine, Wis.
Filed September 22, 1921. Serial No. 153,230. PUBLISHED JANUARY 24, 1922.

155,833. COLLARS, CUFFS, GUIMPES, VESTEES, RUFFS, JABOTS, AND CHEMISETTES. G. SIDENBERG & Co., New York, N. Y.
Filed June 30, 1921. Serial No. 149,866. PUBLISHED FEBRUARY 7, 1922.

155,834. PREPARATION FOR THE TREATMENT OF RHEUMATISM, STOMACH TROUBLE, OR BLOOD IMPURITIES. HENRY A. SIEGRIST, St. Louis, Mo.
Filed November 30, 1921. Serial No. 156,109. PUBLISHED FEBRUARY 28, 1922.

155,835. CANDY SUCKERS. THE SMITH-KIRK CANDY CO., Toledo, Ohio.
Filed October 31, 1921. Serial No. 154,849. PUBLISHED MARCH 7, 1922.

155,836. A MEDICINE TO PRODUCE TWILIGHT SLEEP. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland.
Filed July 1, 1921. Serial No. 149,924½. PUBLISHED JANUARY 31, 1922.

155,837. PINS OF ALL KINDS—NAMELY, SOLID-HEAD, PINS, SAFETY PINS—HOOKS AND EYES, AND SNAP FASTENERS. N. SOLOW, New York, N. Y.
Filed November 3, 1921. Serial No. 155,000. PUBLISHED JANUARY 24, 1922.

155,838. SPARK INTENSIFIERS FOR INTERNAL-COMBUSTION ENGINES OR THE LIKE. S. O. S. IGNITION COMPANY, Brooklyn, N. Y.
Filed April 30, 1921. Serial No. 147,052. PUBLISHED FEBRUARY 21, 1922.

155,839. MEDICINE USED IN THE TREATMENT OF WHOOPING COUGH. WILLIAM R. SPENCE, Ogden, Utah.
Filed August 3, 1921. Serial No. 151,338. PUBLISHED JANUARY 3, 1922.

155,840. LIQUID CLEANER FOR AUTOMOBILE WINDSHIELDS, WINDOWS, AND THE LIKE. THE SPRING MFG. CO., Meriden, Conn.
Filed December 29, 1921. Serial No. 157,284. PUBLISHED FEBRUARY 28, 1922.

155,841. FARM SEED—NAMELY, CLOVER, TIMOTHY, REDTOP, ALFALFA, CANE, MILLET. SPRINGFIELD SEED CO., Springfield, Mo.
Filed October 17, 1921. Serial No. 154,241. PUBLISHED DECEMBER 27, 1921.

155,842. PAPER PULP. THE STAMSOCOTT COMPANY, INCORPORATED, Hopewell, Va.
Filed January 17, 1922. Serial No. 158,059. PUBLISHED MARCH 7, 1922.

155,843. FACE CREAMS. LEONA L. STERN, New York, N. Y.
Filed June 4, 1921. Serial No. 148,673. PUBLISHED JANUARY 24, 1922.

155,844. A CONFECTION CONSISTING OF ICE CREAM OR ICES COVERED BY A COATING OF CHOCOLATE OR OTHER HARDENED EDIBLE MATERIAL. RUSSELL STOVER COMPANY, Des Moines, Iowa.
Filed December 9, 1921. Serial No. 156,502. PUBLISHED MARCH 14, 1922.

155,845. PREPARATIONS FOR CERTAIN NAMED PURPOSES. Dr. J. E. STRECKER, Chattanooga, Tenn.
Filed September 28, 1921. Serial No. 153,479. PUBLISHED JANUARY 17, 1922.

155,846. CERTAIN NAMED ELECTRICAL APPARATUS. TAKAMINE COMMERCIAL CORPORATION, New York, N. Y.
Filed April 11, 1921. Serial No. 146,041. PUBLISHED JANUARY 31, 1922.

155,847. POMADE FOR THE TREATMENT OF THE SCALP. LYDIA TAYLOR, Boley, Okla.
Filed November 8, 1921. Serial No. 155,197. PUBLISHED FEBRUARY 28, 1922.

155,848. A MEDICATED PREPARATION ADAPTED FOR USE FOR THE RELIEF OF DYSPEPSIA, INDIGESTION, NAUSEA, AND HEADACHE. THATCHER-CLORE DRUG CO., Columbus, Ohio.
Filed August 12, 1920. Serial No. 136,048. PUBLISHED FEBRUARY 14, 1922.

155,849. EXTRACT OF WOOD, PARTICULARLY OF QUEBRACHO WOOD, FOR TANNING PURPOSES. ERNESTO TORNQUIST & CO., LIMITADA, Buenos Aires, Argentina.
Filed August 5, 1921. Serial No. 151,494. PUBLISHED JANUARY 31, 1922.

155,850. TOILET PREPARATION FOR COLORING AND TREATING EYEBROWS, EYELASHES, AND HAIR. TRECE LABORATORIES, INC., New York, N. Y.
Filed June 26, 1920. Serial No. 134,282. PUBLISHED JANUARY 24, 1922.

155,851. CERTAIN NAMED ELECTRICAL DEVICES. THE TUCKER ELECTRICAL CONSTRUCTION COMPANY, New York, N. Y.
Filed October 28, 1921. Serial No. 154,711. PUBLISHED JANUARY 10, 1922.

155,852. POWDER PUFFS. FELIX UHRY, Chicago, Ill.
Filed June 4, 1920. Serial No. 133,291. PUBLISHED SEPTEMBER 27, 1921.

155,853. SWITCH BOXES, MOTOR INCLOSURES, AND SAFETY SWITCHES. UNITED METAL BOX CO., New York, N. Y.
Filed November 18, 1921. Serial No. 155,577. PUBLISHED FEBRUARY 7, 1922.

155,854. CANNED FRUITS AND VEGETABLES. VIRDEN PACKING COMPANY, Oakland, Calif.
Filed November 1, 1921. Serial No. 154,898. PUBLISHED MARCH 7, 1922.

155,855. EMBROIDERY STAMPINGS. THE VOCO SALES CO., New York, N. Y.
Filed October 29, 1921. Serial No. 154,777. PUBLISHED JANUARY 3, 1922.

155,856. BAKING POWDER AND SODA. WABASH BAKING POWDER COMPANY, Wabash, Ind.
Filed November 8, 1921. Serial No. 155,203. PUBLISHED FEBRUARY 14, 1922.

155,857. SNAP FASTENERS AND PLACKET FASTENERS. WALDES & CO. INC., New York and Long Island City, N. Y.
Filed October 21, 1921. Serial No. 154,423. PUBLISHED JANUARY 3, 1922.

155,858. CERTAIN NAMED NOTIONS. WALDES & CO. INC., New York and Long Island City, N. Y.
Filed November 3, 1921. Serial No. 155,004. PUBLISHED JANUARY 3, 1922.

155,859. CERTAIN NAMED NOTIONS. WALKER WEBBING CO., Providence, R. I.
Filed November 12, 1921. Serial No. 155,329. PUBLISHED JANUARY 3, 1922.

155,860. CERTAIN NAMED NOTIONS. WALKER WEBBING CO., Providence, R. I.
Filed November 16, 1921. Serial No. 155,464. PUBLISHED JANUARY 3, 1922.

155,861. TOILET PREPARATIONS—NAMELY, CREAMS, PERFUMES, AND WATERS. JOHN WANAMAKER, PHILADELPHIA, Philadelphia, Pa.
Filed August 19, 1921. Serial No. 151,970. PUBLISHED JANUARY 17, 1922.

155,862. SOAPS. JOHN WANAMAKER, PHILADELPHIA, Philadelphia, Pa.
Filed August 24, 1921. Serial No. 152,154. PUBLISHED JANUARY 24, 1922.

155,863. DRESS SHIRTS, NEGLIGEE AND WORK SHIRTS, PYJAMAS, NIGHTSHIRTS, AND TEXTILE UNDERWEAR FOR MEN, WOMEN, AND CHILDREN. CHARLES WAX, Philadelphia, Pa.
Filed July 7, 1921. Serial No. 150,123. PUBLISHED FEBRUARY 7, 1922.

155,864. WEARING APPAREL—NAMELY, OUTER SKIRTS AND STREET, EVENING, AND HOUSE DRESSES FOR WOMEN AND GIRLS. SAMUEL M. WERBER, St. Louis, Mo.
Filed December 31, 1919. Serial No. 126,706. PUBLISHED JANUARY 31, 1922.

155,865. CEDAR TELEPHONE, TELEGRAPH, AND TRANSMISSION-LINE POLES. WESTERN LUMBER & POLE COMPANY, Spokane, Wash.
Filed October 8, 1921. Serial No. 153,905. PUBLISHED DECEMBER 27, 1921.

155,866. BATTERY CHARGERS. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa.
Filed October 5, 1921. Serial No. 153,780. PUBLISHED JANUARY 31, 1922.

155,867. LIQUID PREPARATION TO BE TAKEN INTERNALLY AS AN ALTERATIVE, RECONSTRUCTIVE, AND ANTIASTHMATIC. ROBERT C. WHITE INC., Philadelphia, Pa.
Filed November 8, 1921. Serial No. 155,206. PUBLISHED FEBRUARY 14, 1922.

155,868. CANDY. STEPHEN F. WHITMAN & SON INC., Philadelphia, Pa.
Filed October 1, 1921. Serial No. 153,634. PUBLISHED MARCH 14, 1922.

155,869. FELT SLIPPERS. HERMAN WILHELM, New York, N. Y.
Filed March 1, 1921. Serial No. 144,210. PUBLISHED JANUARY 3, 1922.

155,870. KITCHEN CABINETS. THE CHARLES WILLIAM STORES INC., Brooklyn, N. Y.
Filed October 3, 1921. Serial No. 153,709. PUBLISHED DECEMBER 27, 1921.

155,871. A SEDATIVE AND HYPNOTIC. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y.
Filed November 8, 1921. Serial No. 155,209. PUBLISHED FEBRUARY 14, 1922.

155,872. COAL. WISCONSIN STEEL COMPANY, Chicago, Ill.
Filed January 28, 1922. Serial No. 158,587. PUBLISHED MARCH 7, 1922.

155,873. GASOLINE-ENGINE SPARK PLUGS. WOLLO IGNITION PRODUCTS CO., St. Louis, Mo.
Filed November 22, 1921. Serial No. 155,793. PUBLISHED FEBRUARY 7, 1922.

155,874. BATTERY LIGHTING PLANTS, ELECTRIC LIGHTING PLANTS AND SWITCHBOARDS. WORTHINGTON PUMP AND MACHINERY CORPORATION, New York, N. Y.
Filed June 24, 1921. Serial No. 149,613. PUBLISHED JANUARY 17, 1922.

155,875. A PREPARATION TO CLEAN AND POLISH LENSES (EYEGLASSES). O. L. WUNDER COMPANY, Danville, Ill.
Filed October 14, 1921. Serial No. 154,108. PUBLISHED JANUARY 3, 1922.

155,876. EPSOM SALTS, ROCHELLE SALTS, BICARBONATE OF SODA, BORACIC ACID, CREAM OF TARTAR, COMPOUND LICORICE POWDER, BORAX, AND ALUM. ZAGAT INC., New York, N. Y.
Filed October 14, 1921. Serial No. 154,109. PUBLISHED JANUARY 3, 1922.

155,877. EMULSION MADE FROM CASTOR OIL, OLIVE OIL, AND CHOCOLATE. ZAGAT INC., New York, N. Y.
Filed October 14, 1921. Serial No. 154,110. PUBLISHED JANUARY 24, 1922.

155,878. EMULSION MADE FROM COD-LIVER OIL AND CHOCOLATE. ZAGAT INC., New York, N. Y.
Filed October 14, 1921. Serial No. 154,111. PUBLISHED JANUARY 24, 1922.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

JUNE 6, 1922.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

155,879. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BETTERTON-RUPERT COFFEE CO., Ashland, Ky. Filed Dec. 29, 1921. Serial No. 157,250.

BEST YET

Particular description of goods.—Coffee.
Claims use since October, 1916.

155,880. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BLYSTONE MANUFACTURING COMPANY, Cambridge Springs, Pa. Filed Dec. 29, 1921. Serial No. 157,248.

BLYSTONE

Particular description of goods.—Mixers for Plastic and Granular Materials.
Claims use since June, 1909.

155,881. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CANDY PRODUCTS CORPORATION, Chicago, Ill. Filed Aug. 27, 1921. Serial No. 152,238

BRILLIANT MIXTURE

Particular description of goods.—Hard Candy.
Claims use since Dec. 7, 1920.

155,882. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE CLEVELAND PNEUMATIC TOOL COMPANY, Cleveland, Ohio. Filed Feb. 15, 1922. Serial No. 159,350.

BOWES

Particular description of goods.—Hose Couplings.
Claims use since about May, 1904.

155,883. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) LEONARD M. COTTON, Boston, Mass. Filed Feb. 11, 1922. Serial No. 159,199.

BEVERLY

Particular description of goods.—Motor-Vehicle Trailers, Bodies for Automobiles, and Bodies for Motor Trucks.
Claims use since about Feb. 15, 1915.

155,884. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) COMPOUND INJECTOR & SPECIALTY CO., Chicago, Ill. Filed Oct. 1, 1921. Serial No. 153,592.

"ACME"

Particular description of goods.—Drainage Fittings Consisting of Floor and Garage Drains, Grease Traps, Closet Bends, Clean Outs, Clean-Out Ferrules, Clean-Out T's, T's, Test T's, Drum Traps, Branch T's, Refrigerator Drains, and Vent Caps.
Claims use since the year 1900.

155,885. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) LEONARD M. COTTON, Boston, Mass. Filed Feb. 11, 1922. Serial No. 159,200.

COTTON

Particular description of goods.—Motor-Vehicle Trailers, Bodies for Automobiles, and Bodies for Motor Trucks.
Claims use since about May 15, 1914.

155,886. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) CRANE COMPANY, Chicago, Ill. Filed Oct. 20, 1920. Serial No. 138,544.

CRANE

Particular description of goods.—Check Valves, Stop Valves, and Gate Valves; Screwed and Flanged Pipe Fittings, Cocks, Stop Check Valves, Emergency Valves, Butterfly Valves, Throttle Valves, Balanced Valves, Pressure Regulators, Temperature-Control Valves, Relief Valves, Exhaust Relief Valves, Safety Valves, Blow-Off Valves, Back-Pressure Valves; Boiler Trimmings—Namely, Fusible Plugs, Union Fittings, Gauge Cocks, Drain Cocks; Engine Trimmings—Namely, Cylinder Cocks, Cylinder Relief Valves; Gauge-Glass Valves, Vent Valves, Steam and Ammonia Separators for Removing Condensation, Oil Separators for Removing Oil from Steam or Air, Strainers, Steam Traps, Expansion Pipe Joints, Pipe Flanges; Pipe Unions, Screwed and Flanged; Pipe Supports and Hangers, and Drip Pockets, All Made of Brass, Cast Iron, Malleable Iron, Ferrosteel, Cast, Forged, or Rolled Steel, or Other Alloys; Faucets, Bibs, Plumbing Waste Fixtures, Flush Valves, Mixing Valves, Ball Cocks, and Supply Valves, All Made of Brass, Cast Iron, Malleable Iron, or Other Alloys; Lavatory and Sink Traps Made of Earthenware, Iron, or Brass; Bath Tubs, Showers, Closets, Urinals, Lavatories, Sinks, Laundry Wash Trays, Flush Tanks, Fountains, and Bathroom Trimmings—Namely, Clothes Hooks, Shelves, Towel Bars, Holders for Tumblers and Soap, All Made of Iron, Brass, Glass, Marble, Wood, or Earthenware.

Claims use since Aug. 1, 1896.

155,887. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM D. DAVIS, Lansford, Pa. Filed Nov. 21, 1921. Serial No. 155,671.

Antipayne

Particular description of goods.—Ointment.

Claims use since Jan. 1, 1907.

155,888. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DUDLEY GUM COMPANY, Nashville, Tenn. Filed Nov. 3, 1921. Serial No. 154,967.

SWEET GUM

Particular description of goods.—Chewing Gum.

Claims use since May 17, 1917.

155,889. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) FLANNERY BOLT COMPANY, Wilmington, Del., and Pittsburgh, Pa. Filed May 26, 1921. Serial No. 148,267.

TATE

Particular description of goods.—Boiler Stay Bolts; Track, Frog, and Switch Bolts and Nuts, and Semirigid and Flexible Stay Bolts.

Claims use since February, 1904.

155,890. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE FRANK PURE FOOD COMPANY, Milwaukee, Wis. Filed Nov. 22, 1921. Serial No. 155,742.

Frank's Quality

Particular description of goods.—Canned Sauerkraut.

Claims use since August, 1918.

155,891. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE FRANK PURE FOOD COMPANY, Milwaukee, Wis. Filed Nov. 22, 1921. Serial No. 155,743.

Netherlands

Particular description of goods.—Canned Vegetables—Namely, Sauerkraut.

Claims use since October, 1914.

155,892. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GASH, STULL & COMPANY, Chester, Pa. Filed Mar. 30, 1921. Serial No. 145,447.

SIDE-HILL

Particular description of goods.—Tractor-Plow Hitches.

Claims use since Feb. 22, 1921.

155,893. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. F. GLADDING & CO., INC., South Otselic, N. Y. Filed Oct. 28, 1921. Serial No. 154,693.

Particular description of goods.—Hard-Braid Casting Lines.
Claims use since Nov. 22, 1912.

155,894. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IDAHO VINEGAR & CIDER CO., Payette, Idaho. Filed Jan. 7, 1922. Serial No. 157,613.

THE BEST IN THE WEST

Particular description of goods.—Vinegar
Claims use since Apr. 1, 1918.

155,895. (CLASS 25. LOCKS AND SAFES.) JOHNSON AUTOMOBILE LOCK COMPANY, Chicago, Ill. Filed Apr. 16, 1921. Serial No. 146,260.

JOHNSON

Particular description of goods.—Automobile Locks.
Claims use since July, 1916.

155,896. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) I. KWILECKI'S SONS, Bainbridge, Ga. Filed Oct. 5, 1921. Serial No. 153,761.

Kwilecki's "GOT IT"

Particular description of goods.—Chisels, Hammer Handles, Ax Handles, Picks, Shovels, Tack Hammers, Carpenters' Hammers, Carpenters' Hatchets, Sledge Hammers, Pocketknives, Safety Razors, Ordinary Razors, Razor Blades, Clippers, Scissors, Machinists' Hammers, Flue Scrapers, Pipe Cutters, Handsaws, Crosscut Saws, Band Saws, Hack Saws, Wrenches, Broadaxes, Post-Hole Diggers, Blowers, Mattocks, Files, Pliers, Trowels, Axes, Hack-Saw Blades, Putty Knives, Grindstones, Grindstone Fixtures, Pump Plungers, Well Cylinders, Well-Cylinder Valves, Injectors, Ejectors, Lubricators, Steel Shafting, Shaft Collars, Shaft Boxes, and Shaft Couplings.
Claims use since Sept. 1, 1916.

155,897. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) AARON KOSOFSKY, New York, N. Y. Filed Nov. 22, 1921. Serial No. 155,760.

Particular description of goods.—Muskrat Skins.
Claims use since May, 1908.

155,898. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. L. KRAFT & BROS. CO., Chicago, Ill. Filed Dec. 12, 1921. Serial No. 156,581.

QUESO ANTILLANO

Particular description of goods.—Cheese.
Claims use since on or about Nov. 24, 1920.

155,899. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) MONARCH LEATHER COMPANY, Chicago, Ill. Filed Mar. 21, 1921. Serial No. 145,033.

VENETIAN

Particular description of goods.—Leather.
Claims use since Feb. 17, 1921.

155,900. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) MONARCH LEATHER COMPANY, Chicago, Ill. Filed Apr. 1, 1921. Serial No. 145,573.

BORDEAUX

Particular description of goods.—Leather.
Claims use since Mar. 19, 1921.

155,901. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) MONROE TIRE CORPORATION, Chicago, Ill. Filed Feb. 21, 1921. Serial No. 143,870.

MONROE

Particular description of goods.—Pneumatic Rubber Tires.
Claims use since Nov. 24, 1920.

155,902. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MYLES SALT CO., LTD., New Orleans, La. Filed Jan. 19, 1922. Serial No. 158,134.

MYLES

Particular description of goods.—Salt.
Claims use since July, 1903.

155,903. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) NATIONAL CARBON COMPANY, INC., New York, N. Y. Filed Dec. 19, 1921. Serial No. 156,919.

WHITE FLAME A. C. SPECIAL

Particular description of goods.—Arc-Light Carbons.
Claims use since Dec. 1, 1920.

155,904. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) NATIONAL CARBON COMPANY, INC., New York, N. Y. Filed Dec. 19, 1921. Serial No. 156,920.

WHITE FLAME A. C.

Particular description of goods.—Arc-Light Carbons.
Claims use since Dec. 1, 1920.

155,905. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) NORTON DOOR CLOSER CO., Chicago, Ill. Filed Dec. 12, 1921. Serial No. 156,592.

NORTON

Particular description of goods.—Elevator-Door Closers.
Claims use since about April, 1912.

155,906. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RICHARD PALMER, New York, N. Y. Filed Dec. 14, 1921. Serial No. 156,711.

J. B. L. PILE-EASE

Particular description of goods.—A Preparation for the Treatment of Piles.
Claims use since Feb. 21, 1920.

155,907. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) REVERE MOTOR CAR CORPORATION, Logansport, Ind. Filed Mar. 1, 1920. Serial No. 129,082.

REVERE

Particular description of goods.—Automobiles.
Claims use since Jan. 1, 1917.

155,908. (CLASS 11. INKS AND INKING MATERIALS.) OTTO H. SANDMAN, Brooklyn, N. Y. Filed Oct. 26, 1921. Serial No. 154,621.

Particular description of goods.—Carbon Papers and Typewriter Ribbons.
Claims use since January, 1919.

155,909. (CLASS 12. CONSTRUCTION MATERIALS.) STANDARD OIL COMPANY, (Incorporated in New Jersey,) Bayonne, N. J., and New York, N. Y. Filed Dec. 5, 1921. Serial No. 156,313.

STANDARD OIL COMPANY (NEW JERSEY)

Particular description of goods.—Paving Asphalts, Mixing Asphalts, Asphalt Binders, Asphalt Road Oils, Heavy Paving Fluxes, Medium Paving Fluxes, Light Paving Fluxes, Paving Fluxes, Heavy Roofing Fluxes, Medium Roofing Fluxes, Light Roofing Fluxes, Roofing Fluxes, Roofing Asphalts, Asphalt Brick Fillers, Asphalt Block Fillers, Oxidized Asphalts, Flooring Asphalts, Asphalt Macadams, Resurfacing Asphalts, and Cold-Patch Asphalts.

Claims use for more than one year prior to the date of filing application.

155,910. (CLASS 12. CONSTRUCTION MATERIALS.) STANDARD OIL COMPANY, (Incorporated in New Jersey,) Bayonne, N. J., and New York, N. Y. Filed Dec. 5, 1921. Serial No. 156,314.

STANDARD

Particular description of goods.—Paving Asphalts, Mixing Asphalts, Asphalt Binders, Asphalt Road Oils, Heavy Paving Fluxes, Medium Paving Fluxes, Light Paving Fluxes, Paving Fluxes, Heavy Roofing Fluxes, Medium Roofing Fluxes, Light Roofing Fluxes, Roofing Fluxes, Roofing Asphalts, Asphalt Brick Fillers, Asphalt Block Fillers, Asphalt Macadams, Flooring Asphalts, Resurfacing Asphalts, and Cold-Patch Asphalts.

Claims use for more than one year prior to the date of filing this application.

155,911. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) STANDARD OIL COMPANY, (Incorporated in New Jersey), Bayonne, N. J. Filed Jan. 16, 1922. Serial No. 158,011.

STANDARD OIL COMPANY (NEW JERSEY)

Particular description of goods.—Floor Oils and Furniture and Automobile Polish.

Claims use since more than one year prior to date of filing.

155,912. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) WHITE ROCK MINERAL SPRINGS COMPANY, Waukesha, Wis. Filed Apr. 12, 1922. Serial No. 162,231.

Particular description of goods.—Mineral Water and Beverages Made of Water.

Claims use since 1910.

155,913. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WOLFF MANUFACTURING CO., Chicago, Ill. Filed Oct. 30, 1919. Serial No. 124,379.

SUPERIOR

Particular description of goods.—Water-Closet Bowls.

Claims use since within year 1895.

155,914. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ALEXANDER YOUDELMAN, New York, N. Y. Filed Dec. 16, 1921. Serial No. 156,813.

PERFECTION

Particular description of goods.—Lace Tippers.

Claims use since Aug. 29, 1919.

155,915. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE YOUNGSTOWN SHEET AND TUBE COMPANY, Youngstown, Ohio. Filed Oct. 24, 1921. Serial No. 154,544.

YOUNGSTOWN

Particular description of goods.—Iron and Steel Tubes, Oil-Well Tubular Goods (Consisting of Casing, Tubing, Drive Pipe, Drill Pipe, and Line Pipe), and Fencing (Consisting of Barbed-Wire Fencing, Woven-Wire Fencing, Poultry Fencing, and Staple-Lock Fencing.)

Claims use since 1911.

LABELS

REGISTERED JUNE 6, 1922.

24,431.—*Title:* "ORASEPTINE." (For a Fragrant Antiseptic Mouth Wash, Dentifrice, Gargle, and Douche.) ALLIED DRUG AND CHEMICAL CORPORATION, New York, N. Y. Filed May 14, 1921.

24,432.—*Title:* "GLEN ROSA." (For Oranges.) LLEWELLYN A. BANKS, Los Angeles, Calif. Filed April 22, 1922.

24,433.—*Title:* "BLUE & WHITE SOAP." (For Soap.) BLUE & WHITE SOAP CO., Boston, Mass. Filed February 14, 1922.

24,434.—*Title:* "BEST YET." (For Bread.) S. H. BAKKEN, Benson, Minn. Filed February 27, 1922.

24,435.—*Title:* "BARKER'S GAPE REMEDY." (For a Remedy for Gape in Poultry.) THE BARKER, MOORE & MEIN MEDICINE CO., INC., Philadelphia, Pa. Filed April 13, 1922.

24,436.—*Title:* "THE DREAM FEAST." (For a Baked Confection.) EARLE D. BROWN, South Bend, Ind. Filed April 18, 1922.

24,437.—*Title:* "TEMPLE ORANGES." (For Packages Containing Fresh Oranges.) BUCKEYE NURSERIES INCORPORATED, Tampa, Fla. Filed April 15, 1922.

24,438.—*Title:* "DIAZ BRAND." (For Macaroni.) CAMPANELLA & FAVARO MACARONI CO., New York, N. Y. Filed June 21, 1919.

24,439.—*Title:* "THEODORA." (For Cigars.) VINCENZO CARDALI, New York, N. Y. Filed February 20, 1922.

24,440.—*Title:* "REGUM TOOTH PASTE." (For Tooth Paste.) HENRY NATHANIEL CREGER, San Francisco, Calif. Filed April 22, 1922.

24,441.—*Title:* "THE UNIVERSAL TOY." (For Masks.) DESSART BROTHERS, Brooklyn, N. Y. Filed June 4, 1921.

24,442.—*Title:* "NONE SUCH BREAD." (For Bread.) DRAGON PAPER MFG. CO. INC., Long Island City, N. Y. Filed March 27, 1922.

24,443.—*Title:* "NUT ROLL MOONSHINE MINNIE." (For Candy.) THE FRIEDMAN-KERR CO., Chicago, Ill. Filed April 8, 1922.

24,444.—*Title:* "DANDY BOY." (For Candy.) THE FRIEDMAN-KERR CO., Chicago, Ill. Filed April 8, 1922.

24,445.—*Title:* "DEVIL'S FOOD DEVILISH GOOD." (For Candy.) THE FRIEDMAN-KERR CO., Chicago, Ill. Filed April 8, 1922.

24,446.—*Title:* "KERR'S BUN." (For Candy.) THE FRIEDMAN-KERR CO., Chicago, Ill. Filed April 8, 1922.

24,447.—*Title:* "BIG HIT NUT ROLL." (For Candy.) THE FRIEDMAN-KERR CO., Chicago, Ill. Filed April 8, 1922.

24,448.—*Title:* "KERR'S SNOW BALL." (For Candy.) THE FRIEDMAN-KERR CO., Chicago, Ill. Filed April 8, 1922.

24,449.—*Title:* "KERR'S HIGH BALL." (For Candy.) THE FRIEDMAN-KERR CO., Chicago, Ill. Filed April 8, 1922.

24,450.—*Title:* "'CELERY PHOS-FO'." (For a Medicinal Preparation Named Celery Phos-Fo.) GOTHAM CHEMICAL COMPANY, INC., New York, N. Y. Filed February 25, 1922.

24,451.—*Title:* "PERMACREASE." (For Packages Containing Permacrease, a Celluloid Glue.) CHARLES J. GREGORY, Philadelphia, Pa. Filed February 13, 1922.

24,452.—*Title:* "PUREX." (For Containers Containing a Medicine—Namely, Mackenzie Regulators.) GEORGE H. GUY, Seattle, Wash. Filed September 21, 1921.

24,453.—*Title:* "BANG BIRD AMERICA'S POPULAR PARLOR GAME." (For Boxes Containing the Game Apparatus.) OSCAR E. JACOBS, Detroit, Mich., assignor to Kerr Manufacturing Company, Detroit, Mich. Filed May 23, 1922.

24,454.—*Title:* "JAMESON'S RHEUMATIC & NEURITUS HERB REMEDY." (For a Medicine for Rheumatism and Neuritis.) FRED JAMESON, Palmer, Mass. Filed July 21, 1921.

24,455.—*Title:* "MADDEN'S PICK-ME-UP TONIC." (For Bottles Containing a Tonic.) MADDEN'S PHARMACY, Jacksonville, Fla. Filed April 12, 1922.

24,456.—*Title:* "GRIDLEY'S." (For Cartons Containing Butter). MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to The Gridley Dairy Company, Milwaukee, Wis. Filed April 20, 1922.

24,457.—*Title:* "BROOK-SIDE." (For Cartons Containing Butter.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Kart, Rosen & Stein, Pittsburgh, Pa. Filed April 20, 1922.

24,458.—*Title:* "SEATTLE ICE CREAM." (For Cartons Containing Ice Cream.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Seattle Ice Cream Company, Seattle, Wash. Filed April 20, 1922.

24,459.—*Title:* "EDELWEISS." (For Cartons Containing Butter.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to The Purity Cream Cheese Company, Cleveland, Ohio. Filed April 20, 1922.

24,460.—*Title:* "RESEARCH." (For Motor Oil.) NEBRASKA BUICK AUTO CO., Lincoln, Nebr. Filed March 3, 1922.

24,461.—*Title:* "BELINDA'S JOY." (For a Washing Compound.) FRANK TURNER OSBALDESTON, Chicago, Ill. Filed January 17, 1922.

24,462.—*Title:* "HOG-NIP FLAVOR." (For the Containers for a Hog Remedy in the Form of a Biscuit.) PETERS HOG-BISCUIT CO., Kansas City, Mo. Filed February 23, 1922.

24,463.—*Title:* "IT KILLS 'NOT' DRIVES." (For Insect Exterminators.) PLENGE'S PHARMACY INC., Charleston, S. C. Filed April 17, 1922.

24,464.—*Title:* "PRADA SUNBEAM POLISH." (For a Polish for Pianos, Furniture, Floors, Enamel Beds, Automobiles, and All Varnished and Enamel Surfaces.) JOSEPH E. PRADA, Quincy, Mass. Filed October 11, 1919.

24,465.—*Title:* "REAL SILK FASHIONED HOSIERY." (For Containers for Hosiery.) REAL SILK HOSIERY MILLS, Indianapolis, Ind. Filed April 17, 1922.

24,466.—*Title:* "SNIPE LOAD." (For Loaded Shot Shells.) REMINGTON ARMS COMPANY, INC., New York, N. Y.; Bridgeport, Conn., and Ilion, N. Y. Filed April 19, 1922.

24,467.—*Title:* "DUCK LOAD." (For Loaded Shot Shells.) REMINGTON ARMS COMPANY, INC., New York, N. Y.; Bridgeport, Conn., and Ilion, N. Y. Filed April 19, 1922.

24,468.—*Title:* "HEAVY DUCK LOAD." (For Loaded Shot Shells.) REMINGTON ARMS COMPANY, INC., New York, N. Y.; Bridgeport, Conn., and Ilion, N. Y. Filed April 19, 1922.

24,469.—*Title:* "BRANT LOAD." (For Loaded Shot Shells.) REMINGTON ARMS COMPANY, INC., New York, N. Y.; Bridgeport, Conn., and Ilion, N. Y. Filed April 19, 1922.

24,470.—*Title:* "RABBIT LOAD." (For Loaded Shot Shells.) REMINGTON ARMS COMPANY, INC., New York, N. Y.; Bridgeport, Conn., and Ilion, N. Y. Filed April 19, 1922.

24,471.—*Title:* "QUAIL LOAD." (For Loaded Shot Shells.) REMINGTON ARMS COMPANY, INC., New York, N. Y.; Bridgeport, Conn., and Ilion, N. Y. Filed April 19, 1922.

24,472.—*Title:* "GOOSE LOAD." (For Loaded Shot Shells.) REMINGTON ARMS COMPANY, INC., New York, N. Y.; Bridgeport, Conn., and Ilion, N. Y. Filed April 19, 1922.

24,473.—*Title:* "GROUSE LOAD." (For Loaded Shot Shells.) REMINGTON ARMS COMPANY, INC., New York, N. Y.; Bridgeport, Conn., and Ilion, N. Y. Filed April 19, 1922.

24,474.—*Title:* "ANDY GUMP DROPS." (For Candy.) SIDNEY SMITH, Chicago, Ill. Filed April 18, 1922.

24,475.—*Title:* "ANDY GUMP DROPS." (For Candy.) SIDNEY SMITH, Chicago, Ill. Filed April 18, 1922.

24,476.—*Title:* "TILLMAN'S SEAL HAVANA." (For the Inside Lid of Cigar Boxes.) TILLMAN CIGAR CO., Natchez, Miss. Filed March 2, 1922.

24,477.—*Title:* "TILLMAN'S SEAL HAVANA." (For the Ends of Cigar Boxes.) TILLMAN CIGAR CO., Natchez, Miss. Filed March 2, 1922.

24,478.—*Title:* "VIRDEN'S DINTY MOORE." (For Cooked Corned Beef.) VIRDEN PACKING COMPANY, South San Francisco and Oakland, Calif. Filed April 10, 1922.

24,479.—*Title:* "HARVEST." (For Bread.) WAXTWELL PAPER COMPANY, Grand Rapids, Mich. Filed April 17, 1922.

24,480.—*Title:* "GRAPE RASPBERRY JAM." (For a Spread or Jam for Bread, Toast, and Muffins.) THE WELCH GRAPE JUICE COMPANY, Westfield, N. Y. Filed April 18, 1922.

PRINTS

REGISTERED JUNE 6, 1922.

6,144.—*Title:* "COTTON FABRICS THAT INSURE PROFITS." (For Advertising Purposes for Cotton Piece Goods.) BAUM, STRAUSS & CO., New York, N. Y. Filed August 23, 1921.

6,145.—*Title:* "TAKE YOUR PICK OF A FLIVVER-STICK." (For Advertising Purposes for Candy.) CANDY CRAFT, INC., Chicago, Ill. Filed April 12, 1922.

6,146.—*Title:* "THE VALUE OF TIME." (For Advertising Purposes for Watches.) ELGIN NATIONAL WATCH COMPANY, Chicago, Ill. Filed April 17, 1922.

6,147.—*Title:* "METSAN ASEPTIC NEEDLES." (For Advertising Purposes for Aseptic Needles.) METSAN DENTAL MFG. CO., New York, N. Y. Filed April 19, 1922.

6,148.—*Title:* "RACINE HEEL PROTECTOR." (For Advertising Purposes for a Knitted Nonslip Lining Protector for the Heel of Hose.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed April 17, 1922.

6,149.—*Title:* "PRETTY WHEN SHE WAKES UP." (For Advertising Purposes for Palmolive Soap.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed April 15, 1922.

6,150.—*Title:* "VAN HEUSEN THE WORLD'S SMARTEST COLLAR." (For Advertising Purposes for a Special Kind of Collar.) PHILLIPS-JONES CORPORATION, New York, N. Y. Filed March 22, 1922.

6,151.—*Title:* "BLACK & WHITE." (For Advertising Purposes for Fountain Pens.) SALZ BROTHERS, New York, N. Y. Filed April 15, 1922.

6,152.—*Title:* "YELLOW CABS TAKE THE TAX OUT OF TAXICAB." (For Advertising Purposes for Taxicabs.) YELLOW CAB MANUFACTURING CO., Chicago, Ill. Filed August 19, 1921.

6,153.—*Title:* "YELLOW CABS 'STAND THE GAFF.'" (For Advertising Purposes for Taxicabs.) YELLOW CAB MANUFACTURING CO., Chicago, Ill. Filed August 19, 1921.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

U. S. Circuit Court of Appeals—Third Circuit.

LOCOMOTIVE STOKER CO. *v.* MECHANICAL CONST. CO.

Decided December 31, 1921; rehearing denied February 9, 1922.

277 Fed. Rep., 636.]

1. PATENTS—979,849, CLAIMS 9–12, FOR DISTRIBUTING PLATE FOR STOKERS, VALID BUT NOT INFRINGED.

Claims 9, 10, 11, and 12 of the Hanna patent, No. 979,849, for a distributing plate for blast feed stokers having an unobstructed central portion and divergent side channels, *Held* to involve invention, but not infringed by a tubular device through which the fuel is blown or blasted, and having a slight obstruction or abutment to divert some of the flying coal through side channels or pockets to the rear corners of the firebox.

2. SAME—1,130,443, CLAIMS 1, 2, 3, AND 9, FOR MECHANICAL STOKER, NOT INFRINGED.

Claims 1, 2, 3, and 9 of the Street patent, No. 1,130,443, for a mechanical stoker one element of which is a fuel receptacle below the firing floor, from which the fuel is elevated to a point above the level of the fuel bed, *Held* not infringed by a device consisting of a series of screws working within a casing, and having no distinct receptacle, though one casing is below the firing floor.

APPEAL from the District Court of the United States for the Western District of Pennsylvania; W. H. S. Thomson, judge.

Suit by the Mechanical Construction Company against the Locomotive Stoker Company. Decree for plaintiff, (274 Fed., 411,) and defendant appeals. Reversed in part, and affirmed in part.

Synnestvedt & Lechner and *Gillson & Gillson* (*Mr. Paul Synnestvedt, Mr. Louis K. Gillson,* and *Mr. George Gray* of counsel) for the appellant.

Mr. J. Snowden Bell and *Mr. Walter F. Murray* for the appellee.

Before WOOLEY and DAVIS, Circuit Judges, and LYNCH, District Judge.

LYNCH, *Dist. J.:*

The bill of the Mechanical Construction Company alleged infringement on the part of the Locomotive Stoker Company of its Hanna patent, No. 979,849, relating to an improvement in automatic stokers for feeding fuel within the firebox, and having to do only with the distribution of fuel after it has reached the distributor. The Stoker Company's answer attacked the validity of the patent, denied infringement, and by way of counterclaim alleged that the Construction Company had infringed its Street patent, No. 1,130,443, which relates to a mechanical stoker for bringing fuel to the distributor and has nothing to do thereafter with the distribution of fuel in the firebox. The Construction Company, in answer to the counterclaim, denied infringement and the validity of the Street patent.

The court below sustained the Hanna patent, and found that the Stoker Company had infringed it, and as to the counterclaim found that the Construction Company did not infringe the Stoker Company's Street patent. 274 Fed., 411. Both findings are before us for review.

With respect to the bill (Hanna patent, No. 979,849).

(1) The claims of the Hanna patent in suit (9, 10, 11, and 12) read as follows, (the italics are ours):

9. *A distributing plate* for blast feed stokers having *a wide unobstructed central portion, and a* comparatively narrow divergent *channel* at each side below the central portion of the plate and discharging at the side of the plate.

10. *A distributing plate* for blast feed stokers having *an unobstructed central portion and* divergent *side channels* lying below the central portion of the plate and gradually deepening from the receiving to the discharge end, substantially as specified.

11. *A distributing plate* for blast feed stokers having *an unobstructed central portion and* divergent *side channels* lying below the central portion of the plate and turned at their outer ends to a direction approximately at right angles to the longitudinal axis of the plate, substantially as specified.

12. *A distributing plate* for blast, feed stokers having *an unobstructed central portion and* divergent *side channels* lying below the central portion of the plate, gradually deepening from the receiving to the discharge end and turned at their outer ends to a direction approximately at right angles to the longitudinal axis of the plate, substantially as specified.

Hanna adopted the fan-shaped distributing plate and steam jet of the British patent to Cotten, No. 18,901 of 1895, with their function of spreading fuel in the firebox in forward and lateral directions, and made a substantial improvement by cutting channels in the plate, diverging in curves to the sides, with the function of spreading fuel in a rearward direction. Fuel, when dumped or deposited on this Hanna plate, would be moved forwardly over the unobstructed central portion of the plate, and spread in the forward portions of the firebox by a blast, while other coal, which by the same dumping or depositing process would fall or drop into the divergent side channels lying below the central por-

tion of the plate, would flow through these channels to the rear sides or back corners of the firebox. The learned trial judge, in his opinion, describes the prior art and sets forth his reasons for concluding that the Hanna device was an invention. With his conclusion we concur.

With respect to the question of infringement, however, we are not in agreement. Fuel would not reach the firebox by means of the Hanna device, except by riding over the unobstructed plate *or* by flowing through the side channels. Plate distributors were old in the art, but Hanna's divergent side channel arrangement was a contribution. The device of the Locomotive Stoker Company, which the learned trial judge held to be an infringement of the Hanna patent, is a tubular arrangement, as distinguished from a plate device. This tube is approximately 16 inches long and 10 inches wide.

Fuel is not dumped or deposited and by steam momentum moved forwardly over the bottom of the tube, or across any plate, either obstructed or unobstructed, attached to any part of the tube, but, on the contrary, is blown or blasted *through* the tube and into the firebox. The lower stratum of this blasted fuel, some of which doubtless comes in contact with the bottom of the tube, strikes a slight obstruction or abutment, which is fixed at that end of the tube which protrudes into the firebox. This obstruction is made by raising slightly above the bottom of the tube the forward walls of pockets or channels, very like Hanna's, and is placed there for the *purpose* of stopping and diverting some of the flying coal and causing it to drop, through side channels or pockets, to the rear corners of the firebox, instead of proceeding uninterrupted to the forward parts thereof. The obstruction as described by the patentee of the tube distributor is as follows (the italics are ours):

> A further portion (of the fuel column), the lower portion, meets the obstruction which is attached to the bottom of the tube, and projects above the bottom level. The *lower strata* of the coal therefore drops by gravity, and by rebounding from the wall of the obstruction into the corners of the firebox door on the rear portion of the grates.

This obstruction or abutment runs across the entire outer end of the projected bottom of the tube, and there is a channel or pocket on each side between the end of the tube and the abutment. No fuel can actually be dumped or deposited into these pockets, as in Hanna's, because they are located 16 inches beyond the point of delivery of fuel to the tube distributor, and no fuel enters these pockets except that part of the lower stratum of fuel passing into the tube, which is arrested or deflected by the abutment or obstruction. This obstruction is fixed above the bottom of the tube at an elevation calculated to divert fuel in the quantity required for rearward spreading. These pockets, therefore, do not function in the way the divergent channels of the Hanna patent function. Coal enters the Hanna channels freely, without the assistance of an obstruction, while no coal other than that which is obstructed enters the tube pockets of the defendant's device.

Hanna's device is—

> a distributing plate * * * having a wide unobstructed central portion, *and* a comparatively narrow divergent channel.

a combination of plate and channels; the plate supplying certain parts of the firebox and the channels other parts. The Construction Company's device is a combination of tube and obstructor. The plates of Cotten and Hanna are discarded. Beyond the pockets there is no plate or "unobstructed central portion"—an element of each claim in suit. In front of the obstructing pockets there is only enough metal to build up and hold the pockets in place. What metal there is, is in no sense akin to a plate, and discloses no function of plate distribution forward and lateral. As we have already pointed out, the Hanna channels and the pockets of the defendant's device, though alike in their purpose, function in different ways. Yet, if they were alike in function, as urged by the plaintiff, they have to do only with fuel distribution rearward. Both devices comprehend fuel distribution to the sides and to the forward end of the firebox. Distribution over these portions of the firebox is effected by mechanism of the defendant without the plate means provided by the Hanna patent, and by means so different from that contemplated by the Hanna patent that, notwithstanding similarity of channels and pockets, infringement is avoided.

For these reasons we think the appellant's device did not infringe the Hanna patent.

As to the counter claim (Street patent, No. 1,130,443).

(2) The claims of the Street patent alleged to be infringed are four, to wit:

> 1. In a locomotive, the combination with the boiler furnace and its firing door, of a mechanical stoker apparatus mounted on the locomotive and comprising *a fuel receptacle below the firing floor*, an elevator for conveying the fuel from said receptacle to a point above the level of the fuel bed, and means for delivering the fuel therefrom into the furnace.
>
> 2. In a locomotive and tender, the combination with the boiler furnace, of a mechanical stoker apparatus mounted on the locomotive and comprising *a fuel receptacle below the firing floor*, means below said floor for delivering fuel from the tender into said receptacle, an elevator for conveying the fuel from said receptacle to a point above the level of the fuel bed, and means for delivering the fuel therefrom into the furnace.
>
> 3. In a locomotive, the combination with the boiler furnace and its firing door, of a mechanical stoker apparatus mounted on the locomotive and comprising *a fuel receptacle below the firing floor*, an elevator for conveying the fuel from said receptacle to a point above the said door, and a gravity discharge conduit for delivering fuel
>
> 9. In a locomotive, the combination with a boiler furnace having a firing door, of a mechanical stoker apparatus mounted on the locomotive and comprising *a fuel receptacle* located below said door, a tubular casing extending upward from said receptacle to a point above said door, an endless conveyor operating in said casing to raise the fuel from said receptacle, and means for delivering the fuel from the casing above the door into the furnace.

It will be observed that each of the four claims contains as an element "a fuel receptacle below the fire floor." The receptacle is a distinct element of the Street device, and on it the issue of support turns. Coal is deposited into it, so that elevator buckets, passing through, pick up and carry upward some fuel. In order for a bucket system to properly function, there must be a chamber (receptacle) where the fuel is received, and where later the buckets take on the material to be carried. There

would always be a residue, perhaps a small residue, lying in the receptacle. This could not be avoided.

The screw device of the Hanna stoker, which is alleged to be an infringement of the Street claims, carries coal or fuel by a series of screws, four in number, each working within a casing, and each taking up the coal transferred to it, and delivering it to the screw in advance, and each casing is cleared of its own coal as fast as the coal is delivered to it. At least one casing is "below the firing floor." There is no distinct receptacle, or relaying chamber, attached to this screw arrangement. And no part of the conveying apparatus itself, it seems to us, should be regarded as a receptacle.

We are therefore in agreement with the court below in holding that the Hanna screw stoker, having neither a distinct receptacle nor any section performing the functions of a receptacle, is not an infringement.

The decree below is reversed, in so far as it held the claims of the Hanna patent in suit infringed, and it is affirmed, in so far as it held the claims of the Street patent in suit not infringed, with costs of appeal to be divided equally between the appellant and appellee.

On petition for rehearing.

The following statement appears on page 4 of the petitioner's brief:

> The actual distributors are large, heavy, ugly affairs, that crowded the courtroom, *and tended to soil the new rug therein, and were removed therefrom at the request of this honorable court, at the close of the hearing.* Unfortunately, however, appellant has gone beyond the directions of the court, in that it took possession of both plaintiff's and defendant's exhibits and shipped them to Pittsburgh, leaving in the court's keeping, instead of these actual distributors, a neat little aluminum model, purporting to represent, in reduced size, defendant's Exhibit D. It appears from the aforesaid excerpt that this is all that this honorable court took into consideration in reversing the trial court, upon the question of infringement. * * * Appellant's leaving this neat little aluminum model of defendant's Exhibit D, and removing the main offenders, is in keeping with their apparent purpose to relegate plaintiff's Exhibit 3 to obscurity.

This statement, though probably made in entire belief in its truthfulness, is nevertheless wholly untrue. None of the large, heavy, and ugly distributors were removed from the court room at the close of the hearing, nor were shipped to Pittsburgh until after the case had been decided in conference. All of these large, heavy, and ugly distributors, and all other exhibits in the case, except only that one being the illustrative model of the respondent, were retained in the court room just as they were produced at the argument, put aside on a tarpaulin, and there remained until conference. The conference was had, not with the little aluminum models, but by the three judges sitting about, handling, measuring, closely examining, and considering the large, ugly, dirty distributors.

We are of the opinion that the application for rehearing should be denied.

ADJUDICATED PATENTS.

(U. S. C. C. A. Mass.) The Balzer patent, No. 1,213,999, for drying apparatus, *Held* void for lack of invention. *Troy Laundry Machinery Co.* v. *International Equipment Co.*, 278 Fed. Rep., 891.

(U. S. C. C. A. N. Y.) The Darrow patents, Nos. 1,207,142 and 1,242,659, for washing machine and mechanism for operating attached wringer, *Held* void for lack of invention. *Muser* v. *Bell*, 278 Fed. Rep., 904.

(U. S. D. C. Ill.) The Tufford reissue patent, No. 14,049, claims 5 to 9, for flexible heel lift, *Held* infringed. *I. T. S. Rubber Co.* v. *U. S. Rubber Co.*, 278 Fed. Rep., 975.

(U. S. C. C. A. Mich.) The Webster patent, No. 1,125,229, for filler-tube cap for automobile radiators. *Held* void for lack of invention. *Bridgeport Brass Co.* v. *Ford Motor Co.*, 278 Fed. Rep., 881.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

668,641, J. Harrington, Railway safety switch, suit filed February 25, 1922, U. S. D. C., M. D. Pa., Doc. 1391 (Trespass), *J. Harrington* v. *Hudson Coal Co.*

822,753, A. McDougall, Ore cleaners, appeal filed March 20, 1922, U. S. C. C. A. Minn., *A. McDougall* v. *Oliver Iron Mining Co.*

828,956, 864,673, 1,154,709, J. H. McEvoy, Well strainers; 874,418, same, Straining plugs, suit filed March 11, 1922, U. S. D. C., S. D. Calif., Doc. F 102, *J. H. McEvoy and McEvoy Wireless Well Strainer Co.* v. *Layne & Bowler Corporation, E. M. Smith and Petroleum Midway Co., Ltd.*

839,736, A. De Vilbiss, Jr., Computing scales, suit filed April 21, 1922, U. S. D. C., S. D. Ohio, Doc. 56 Eq., *Toledo Scale Co.* v. *The Computing Scale.*

841,387, L. de Forest, Device for amplifying feeble electrical currents: 879,532, same, Space telegraphy, suit filed May 9, 1922, U. S. D. C., N. D. Calif. (2nd Div.), Doc. 731, *American Tel. and Tel. Co. and de Forest Radio Tel. and Tel. Co.* v. *Moorhead Laboratories, Inc.; Atlantic-Pacific Radio Supplies Co., Inc.; H. M. Shaw; C. M. Whitney; G. C. Stephens; J. E. Allison; W. F. Williamson; T. J. Swift; R. B. Bain; A. A. Baxter; O. B. Moorhead; R. C. Hyre; C. Dornbach.*

847,811, M. Peller, Suspender buckle, suit filed May 12, 1922, U. S. D. C. Conn., Doc. 1598 Eq., *The Waterbury Buckle Co.* v. *The G. E. Prentice Mfg. Co.*

864,673. (See 828,956.)

874,418. (See 828,956.)

879,532. (See 841,387.)

883,630, W. L. Dunn, Apparatus for screwing well casing; 958,698, same, Combination casing wrench; 968,454, same, Bushed combination casing wrenches, suit filed August 7, 1921, U. S. D. C., S. D. Calif. (S. Div.), Doc. B 29, *Dunn Mfg. Co.* v. *Union Tool Co., and T. J. Griffin.* Dismissed on stip. without cost, by final decree entered March 30, 1922.

895,412, A. C. Badger, Method of forming compound receptacles; 1,052,709, same, Expansion joints, suit filed May 19, 1922, U. S. D. C. Mass., Doc. 1727 Eq., *A. C. Badger* v. *E. B. Badger & Sons Co.*

952,745, C. J. Kirk, Process for forming articles of plastic material, suit filed May 16, 1922, U. S. D. C., S. D. Ill. (N. Div.), Doc. 189, *Universal Sanitary Mfg. Co.* v. *Abingdon Sanitary Mfg. Co.*

958,478, W. E. Davey, Process of reinforcing trees, suit filed May 16, 1922, U. S. D. C. Md., Doc. 293 Eq., *The Davey Tree Expert Co.* v. *H. S. Clopper.*

958,698. (See 883,630.)

968,454. (See 883,630.)

986,455, F. Girtanner, Furnace arches, U. S. C. C. A. Minn., *Laclede Christy Clay Products Co.* v. *City of St. Louis.* Decision dismissing bill affirmed April 24, 1922.

1,011,484, A. A. Perkins and E. Double, Method of excluding water from oil wells, suit filed December 1, 1921, U. S. D. C., S. D. Calif. (S. Div.), Doc. F 70, *Perkins Oil Well Cementing Co.* v. *W. B. Wigle.*

1,052,709. (See 895,412.)

1,063,422. (See 1,270,712.)

1,070,361, M. J. Trumble, Evaporating apparatus for petroleum oils and the like suit filed June 9, 1919, U. S. D. C., S. D. Calif. (N. Div.), Doc. B 60, *Shell Co. of California* v. *American Oil Fields Co.* Final decree dismissing bill entered March 8, 1922.

1,094,692, C. H. Allison, Explosive-cap protections; 1,218,504, F. Alexander, Electric-blasting-cap protectors, suit filed March 15, 1922, U. S. D. C., S. D. Calif., Doc. 1085 Law, *F. Alexander and C. H. Allison* v. *Hercules Well Shooting & Construction Co.*

1,154,709. (See 828,956.)

1,181,395, G. Lane, Lifting jacks, suit filed May 19, 1922, U. S. D. C., E. D. Mich. (S. Div.), Doc. 469, *Lane Brothers Co.* v. *Dextra Mfg. Co.*

1,185,394, A. E. Greene, Process of melting scrap metal, suit filed May 8, 1922, U. S. D. C., W. D. Wash., Doc. 295 E, *Greene Electric Furnace Co.* v. *Everett Steel Co.*

1,214,486, W. D. Wright, Electric cooking apparatus, suit filed March 22, 1918, U. S. D. C., S. D. Calif. (S. Div.), Doc. D 68, *W. D. Wright* v. *Pacific States Electric Co.* Decree of D. C. reversed by C. C. A. Final decree dismissing bill entered February 21, 1922.

1,218,504. (See 1,094,692.)

1,232,449, G. A. E. Mellin, Gear-shifting levers for automobiles, suit filed December 21, 1920, U. S. D. C., S. D. Calif. (S. Div.), Doc. E 106, *F. T. Hughes* v. *Albertson Motor Co.* Final decree April 5, 1922.

1,239,249, E. C. Ballman, Rectifier for alternating currents, U. S. C. C. A. Minn., *Fore Electrical Mfg. Co. et al.* v. *St. Louis Electrical Works et al.* Decision rendered March 25, 1922, remanding cause with directions to dismiss suit at appellees' costs.

1,239,418, C. L. Martin, Sash weights, suit filed March 28, 1921, U. S. D. C., S. D. Calif. (S. Div.), Doc. F 13, *C. L. Mendell, W. J. Bruce & P. S. Reynolds, Co-part., etc., Concrete Sash Weight Co. & A. L. Spring* v. *Economy Sash Weight Co.* Interlocutory decree entered March 17, 1922.

1,261,222, F. E. Earles and F. G. Lowe, Fly-killing devices, suit filed March 18, 1922, U. S. D. C. Pa., Doc. 324, *F. E. Earles, L. M. Lowe & J. H. Potts* v. *A. W. Drake Mfg. Co. and G. W. Gomber.*

1,263,879, A. Gerosa, Lugs for power-plant support for motor vehicles; 1,371,622, W. F. Hudson, Crankcase repair arm; Des. 57,047, same, suit filed May 15, 1922, U. S. D. C., S. D. Calif., Doc. F 118, *A. Gerosa & Hudson Motor Specialties Co.* v. *L. M. Doxie, Union Brass Foundry, Chanslor & Lyon Co. & Heinie Auto Sales Co.*

1,270,712, 1,063,422, E. W. Dunn, Orchard heater, suit filed May 8, 1922, U. S. D. C., S. D. Calif., Doc. F 114, *E. W. Dunn* v. *Whiting Mead Commercial Co.;* same, same, same, Doc. F 115, *E. W. Dunn* v. *American Can Co.*

1,270,712, E. W. Dunn, Orchard heater, suit filed May 10, 1922, U. S. D. C., S. D. Calif. (S. Div.), Doc. 1105 Law, *E. W. Dunn* v. *Fruit Grower's Supply Co.*

1,304,951, J. A. Eberle, Swings, U. S. C. C. A. Minn., *J. A. Eberle et al.* v. *Stix, Baer and Fuller Dry Goods Co. et al.* Decision rendered March 25, 1922, affirming decree dismissing bill.

1,333,708, P. A. Fischer, Adjustable cap, suit filed May 8, 1922, U. S. D. C. Md., Doc. 292 Eq., *Fine & Levy* v. *Dorf & Co.*

1,343,709, Des. 54,377, E. E. Chapman, Vehicle shackle, Re. 14,956; H. D. Ells, Automobile theft signals, suit filed April 27, 1921, U. S. D. C., S. D. Calif. (S. Div.), Doc. F 19, *Miller-Chapman Co.* v. *The Greenlock Co. & H. H. Burrows etc.* Decree March 6, 1922.

1,343,709, E. E. Chapman, Vehicle shackle; Re. 14,956, H. D. Ells, Automobile theft signals, suit filed May 13, 1922, U. S. D. C., S. D. Calif. (S. Div.), Doc. F 117, *Security Mfg. Co.* v. *Supreme Mfg. Co.*

1,355,074, D. P. Cleveland, Process of removing surface finish, suit filed May 4, 1922, U. S. D. C., E. D. La., Doc. 16,959, *Universal Paint Remover & Motor Cleaning Co.* v. *I. Shoudy.* Decree entered May 17, 1922.

1,369,891, E. P. Halliburton, Method and means for cementing oil wells, suit filed (no date given) U. S. D. C., E. D. Okla., Doc. 2827, *E. P. Halliburton* v. *E. A. Steen.*

1,371,622. (See 1,263,879.)

1,391,820. W. M. Boenning, Portable wire-tying machine; 1,408,936, A. J. Gerrard, Wire tying or twisting machines; 1,401,025, P. Wright, Hand-operated wire-tying machines, suit filed May 5, 1922, S. Div., U. S. D. C., N. D. Calif. (2nd Div.). 724 Eq., *A. J. Gerrard Wire Tying Machines Co., Inc.* v. *Ti-It Machines Co.;* same; same; same. suit filed May 12, 1922, U. S. D. C., S. D. Calif. (S. Div.), *Gerrard Wire Tying Machines Co. Inc. and A. J. Gerrard* v. *Harvey Machine Co.*

1,401,025. (See 1,391,820.)

1,408,936. (See 1,391,820.)

Re. 14,952, H. N. Moore. Transmission mechanism, suit filed March 28, 1921, U. S. D. C., S. D. Calif. (S. Div.), *H. N. Moore et al.* v. *Langbein et al.* Patent held valid and infringed. Decree entered April 18, 1922.

Re. 14,956. (See 1,343,709.)

Des. 54,377. (See 1,343,709.)

Des. 57,047. (See 1,263,879.)

Notice of Opposition.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE.
Washington, D. C., May 10, 1922.

Estasi Perfumery Co., Inc., its heirs, assigns, or legal representatives, take notice:

On December 15, 1921, upon the petition of the A. P. Babcock Company, of 501 Fifth Avenue, New York, N. Y., an opposition proceeding against the registration of a trade-mark to Estasi Perfumery Co., Inc., of 235 Fifth Avenue, New York, N. Y., was instituted by this Office. The attorney of record for Estasi Perfumery Co., Inc., has since withdrawn from the case, and a notice of such opposition sent to Estasi Perfumery Co., Inc., at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Estasi Perfumery Co., Inc., its heirs, assigns, or legal representative, shall enter an appearance therein within thirty days from the first publication of this order, the opposition will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office.

Vol. 299—No. 2. TUESDAY, JUNE 13, 1922. Price—$5 per year.

[PUBLISHED JUNE 14, 1922.]

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $5.00 per annum; single numbers, 10 cents each.

Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CONTENTS.

	Page.
Issue of June 13, 1922	237
Amendment to the Rules of Practice	237
Reciprocity of the Laws of Hungary Recognized	237
Interference Notice	237
Drawings	237
Access to Pending Applications	237
Applications Under Examination	238
Patents Granted	239
Reissues	400
Designs	403
Trade-Marks Published (252 Applications)	407
Trade-Mark Registrations Granted	443
Trade-Mark Registrations Renewed	457
Decisions of the U. S. Courts—	
United Shoe Machinery Co. *v.* L. Q. White Shoe Co.	459
E. McIlhenny's Son *v.* B. F. Trappey & Sons	461
Adjudicated Patents	462
Patent Suits	463
Changes in Classification	464

Issue of June 13, 1922.

Patents	783	No. 1,419,126 to No.	1,419,908, inclusive.
Designs	18	No. 61,058 to No.	61,075, inclusive.
Trade-Marks	237	No. 155,916 to No.	156,152, inclusive.
Reissues	9	No. 15,379 to No.	15,387, inclusive.
T. M. Renewals	5		
Total	1052		

Amendment to the Rules of Practice.

(Order No. 2,751.)

Department of the Interior,
United States Patent Office,
Washington, D. C., May 27, 1922.

Acting under the provisions of section 483 of the Revised Statutes and with the approval of the Secretary of the Interior, paragraph (*f*) of Rule 63 of the Rules of Practice of the United States Patent Office has been amended to read as follows:

(*f*) Applications filed more than twelve months after the filing of an application for the same invention in a foreign country, *but only upon a request based upon a verified showing that the foreign patent will issue by a certain date and that the foreign Patent Office has refused to postpone its issuance.*

THOMAS E. ROBERTSON,
Commissioner.

Reciprocity of the Laws of Hungary Recognized.

(Order No. 2,754.)

Department of the Interior,
United States Patent Office,
Washington, D. C., June 8, 1922.

Notice is hereby given that the laws of Hungary are recognized as affording to citizens of the United States privileges substantially reciprocal to the privileges accorded by the Nolan Act of March 3, 1921 (41 Stat. L., 1313), and that consequently all the privileges specified in said act will be extended to its citizens.

THOMAS E. ROBERTSON,
Commissioner.

Interference Notice.

Department of the Interior,
United States Patent Office,
Washington, D. C., May 27, 1922.

J. W. Wilk & Company, their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Seaboard Commercial Company, of Second Avenue and Yealer Way, Seattle, Wash., for registration of a trade-mark and trade-mark registered January 5, 1915, No. 101,660, to J. W. Wilk & Company, of 1720–22–24 West Polk Street, Chicago, Ill., and a notice of such interference sent by registered mail to said J. W. Wilk & Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said J. W. Wilk & Company, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the Official Gazette for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

Drawings.

Rule 38.

38. When there are drawings, the description will refer to the different views by figures and to the different parts by letters or numerals, (preferably the latter.)

Rule 52—Extract.

(*f*) The different views should be consecutively numbered. Letters and figures of reference must be carefully formed. They should, if possible, measure at least one-eighth of an inch in height, so that they may bear reduction to one twenty-fourth of an inch; and they may be much larger when there is sufficient room. They must be so placed in the close and complex parts of drawings as not to interfere with a thorough comprehension of the same, and therefore should rarely cross or mingle with the lines. When necessarily grouped around a certain part, they should be placed at a little distance, where there is available space, and connected by short broken lines with the parts to which they refer. They should not be placed upon shaded surfaces, and when it is difficult to avoid this, a blank space must be left in the shading where the letter occurs, so that it shall appear perfectly distinct and separate from the work. If the same part of an invention appear in more than one view of the drawing it must always be represented by the same character, and the same character must never be used to designate different parts.

It is suggested that numerals or letters be used without exponents.

Access to Pending Applications.

No person except the applicant, the assignee whose assignment is of record, or the attorney of record will be permitted to have access to the file of any application, except as provided for under the interference rules, unless written authority from the applicant, assignee, or attorney, identifying the application to be inspected, is filed in the case to become a part of the record thereof, or upon the written order of the Commissioner, which will also become a part of the record of the case.

Condition of Applications Under Examination at Close of Business June 3, 1922.

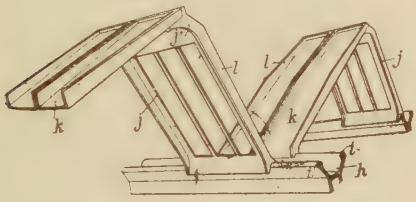
(Total number of applications waiting action, excluding Trade-Mark division, 67,791; Trade-Mark division, 8,940. Oldest new case, Mar. 1; oldest amended, Mar. 26, 1921. The dates given are 1921 except where * indicates 1922.)

Room No.	Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	Nov. 14	Dec. 1	923
128	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants, and Flowers.	June 13	July 5	1,904
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Sept. 13	June 16	946
234	4. MERRITT, A. D., Conveyers; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Aug. 6	*Mar. 1	1,504
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Aug. 15	Aug. 25	1,102
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Aug. 27	*Jan. 6	1,300
312	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes	Aug. 26	Nov. 7	2,395
133	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet-Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	*Mar. 2	*Apr. 10	878
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	May 12	*Apr. 8	1,130
235	10. MITCHELL, T. H., Land Vehicles; Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	Nov. 9	*Mar. 16	1,082
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	*Jan. 4	*Feb. 16	623
322	12. PIERCE, P. P., Machine Elements	Nov. 5	*Jan. 16	1,235
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	May 11	*Jan. 11	1,896
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	Aug. 9	*Feb. 27	956
308	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	June 16	Aug. 1	2,040
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	June 4	June 26	2,233
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Aug. 12	Dec. 23	1,381
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices; Steam and Vacuum Pumps.	Mar. 1	Apr. 19	2,397
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	June 2	Sept. 3	1,259
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Dec. 1	Dec. 3	1,703
212	21. THURBER, W. L., Continuous-Strip Feeding; Textiles; Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	July 13	Oct. 21	946
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making.	Sept. 27	*Jan. 23	495
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Apr. 21	Oct. 6	893
144	24. DURAS, C. C., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	July 29	*Jan. 7	1,196
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*Mar. 25	*Mar. 21	450
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Sept. 6	Nov. 23	1,018
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Aug. 13	Sept. 12	1,970
225	28. BENSON, A. R., Internal-Combustion Engines	Aug. 29	Aug. 17	1,771
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Aug. 8	*Mar. 17	655
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	Dec. 1	*Mar. 30	1,437
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	June 6	Aug. 11	2,153
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Aug. 1	*Feb. 2	1,076
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Oct. 27	Dec. 14	951
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	*Mar. 4	*Mar. 3	507
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	Jan. 14	*Mar. 1	893
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	Dec. 30	Nov. 17	1,828
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	July 2	July 16	1,958
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Oct. 19	Oct. 15	1,704
220	39. COWLES, A. W., Fluid-Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Apr. 21	May 9	2,285
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	June 4	Sept. 6	3,022
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	*Jan. 6	Dec. 7	750
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	June 27	June 13	1,948
382	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	July 9	Aug. 22	1,929
253	44. SHAFFER, C. H., Air Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration; Ships.	Sept. 24	*Mar. 24	538
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Nov. 3	*Feb. 3	1,235
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Sept. 30	Nov. 3	1,351
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems.	July 30	Dec. 13	1,312
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	Mar. 14	Mar. 26	2,723
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, JR.			
	Trade-Marks	Sept. 12	Jan. 30	6,008
	Designs	Oct. 3	Jan. 12	2,742
	Labels and Prints	May 11	May 24	190

PATENTS

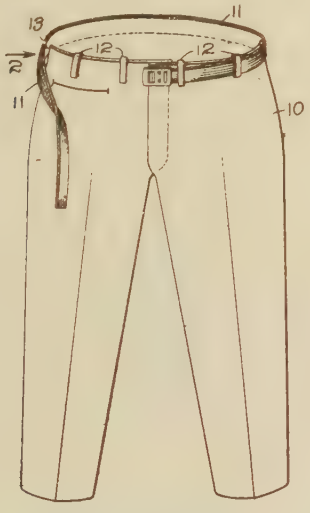
GRANTED JUNE 13, 1922.

1,419,126. BUILDING CONSTRUCTION. CHARLES HENRI BESNARD, Paris, France, assignor to Julien Pierre Bertrand Bessonneau, Paris, France. Filed Oct. 24, 1919. Serial No. 333,117. 5 Claims. (Cl. 108—1.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



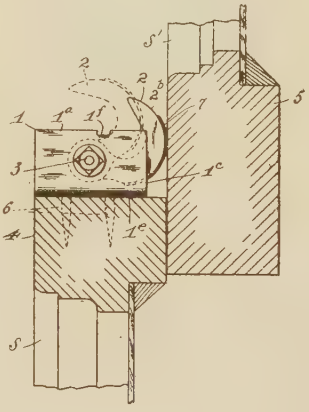
1. In a demountable concrete roof, a plurality of gutters spaced apart and each having opposite side walls terminating in upper curved surfaces, a plurality of slabs arranged at angles to each other and having their upper ends engaging one another, and curved surfaced grooves provided in the lower edges of said slabs and engaging the upper curved edges of the sides of the gutters.

1,419,127. TROUSERS. HARRY BROUDER, Worcester, Mass. Filed Dec. 13, 1920. Serial No. 430,188. 2 Claims. (Cl. 2—143.)



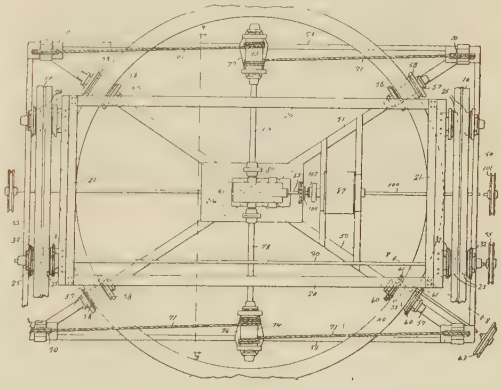
1. An article of manufacture comprising a pair of trousers and a belt encircling the front portion thereof, said trousers provided with side seams and having short slits at the upper ends of said side seams extending downward from the upper edge of said trousers, and said belt forming part of and being secured to the rear portion of said trousers adjacent each slit and at the rear edge thereof, said slits being substantially concealed by said belt but permitting waist adjustment of said trousers by said belt.

1,419,128. SASH FASTENER. HARRY S. DUNBAR, Cleveland, Ohio. Filed Dec. 20, 1920. Serial No. 431,903. 2 Claims. (Cl. 292—238.)



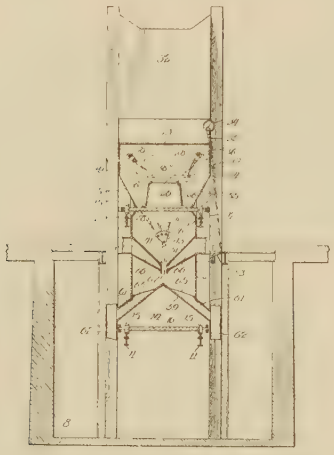
1. A sash fastener comprising the combination of an integral channel bracket attached to the top meeting rail of a window sash; a tumbler pivotally suspended in said bracket and extending outward therefrom, the outer contour of the tumbler being eccentric to the pivotal center; pivotal means for said tumbler; and a lip on top of the bracket which limits the oscillation of the tumbler.

1,419,129. TRAVELING CRANE. BENJAMIN F. FITCH, Evanston, Ill., assignor to The Motor Terminals Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 24, 1919. Serial No. 292,513. 28 Claims. (Cl. 212—14.)



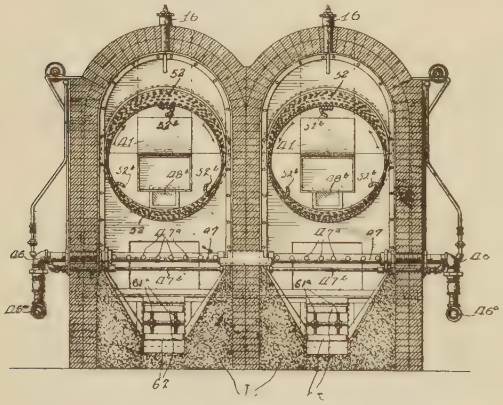
1. The combination, with a frame suspended from an overhead trackway and having supporting wheels, a curved trackway, a second frame having supporting wheels riding on said curved trackway, so that the second frame may turn about a vertical axis, four flexible members depending from said second frame adjacent the four corners of a rectangle, and mechanism for simultaneously raising the said flexible members with a uniform velocity.

1,419,130. SAND-BLAST APPARATUS. OSCAR A. FORSBERG, Chicago, Ill., assignor to Crane Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 16, 1921. Serial No. 461,947. 9 Claims. (Cl. 51—14.)



5. In a sand blast apparatus, the combination of an elongated chamber, an endless conveyor extending therethrough and adapted to convey articles to be treated through the chamber, a plurality of sets of nozzles mounted above the conveyor, a plurality of nozzles mounted below the conveyor, means for oscillating all of said nozzles, means for delivering sand and air under pressure to said nozzles, means for cleaning the discharged sand, and means for returning said sand to the nozzles.

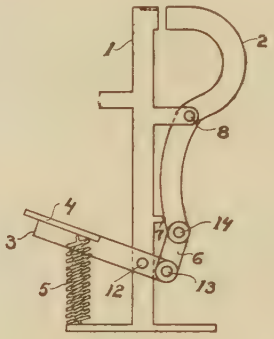
1,419,131. OVEN FOR TOASTING CEREAL FOODS. PETER W. FOSTER, Battle Creek, Mich., assignor to Kellogg Toasted Corn Flake Company, Battle Creek, Mich., a Corporation of Michigan. Filed July 19, 1920. Serial No. 397,162. 10 Claims. (Cl. 34—6.)



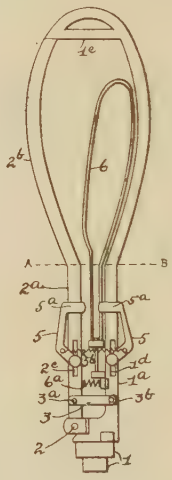
1. In an oven for toasting cereal foods and having walls enclosing a toasting chamber and heating means in the lower part of said chamber, a foraminous sheet metal cylinder mounted to rotate in said chamber above said heating means and extending diametrically to points adjacent the side walls of the oven, said cylinder being slightly inclined from the horizontal, a delivery chute arranged to deliver material into the upper end of said cylinder, and a discharge hopper arranged to discharge the toasted material from the lower end of said cylinder.

1,419,132. ANVIL HORSESHOE VISE. ERNEST FRAZER, Portage Lake, Me. Filed Nov. 3, 1921. Serial No. 512,523. 2 Claims. (Cl. 81—21.)

1. An anvil horseshoe vise of the class described comprising a stationary vertical jaw arm at the top of which and at right angles thereto and forming an integral part therewith is a stationary jaw member, a movable vertical jaw arm and a jaw member integral therewith and at right angles thereto, completing the vise by parallel contact with the stationary jaw member, and means to operate the movable jaw member comprising a foot lever pivotally connected to the stationary jaw member and rotatably connected to the movable jaw member, said stationary arm being provided with an extension so as to limit the opening of the jaws.

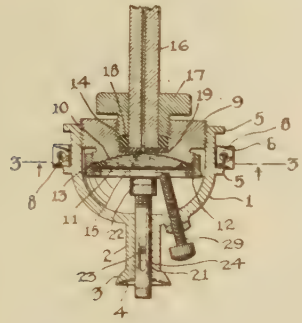


1,419,133. GARMENT-DRYING FRAME. ISRAEL GARON, Duluth, Minn. Filed Jan. 10, 1920. Serial No. 350,693. 6 Claims. (Cl. 223—17.)



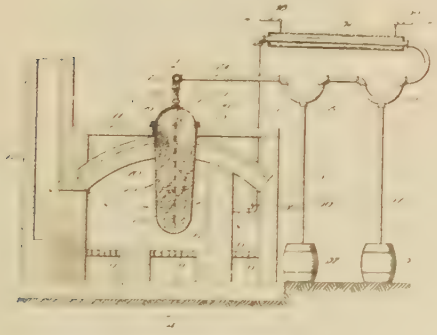
1. In a garment drying frame, the combination with a suitable base, of a stationary post extending therefrom, said post having a substantially straight lower portion and a curved upper end; a second post pivotally connected to said base and extending therefrom parallel to said stationary post for part of its length, said pivoted post having a curved upper end adapted to meet the upper terminal of said stationary post, said posts being adapted in operative position to cooperate to form a loop, and means for retracting said pivoted post toward said stationary post, whereby the transverse diameter of said loop is contracted.

1,419,134. TONOMETER. ISADORE GOLDSTEIN, New York, N. Y. Filed July 10, 1920. Serial No. 395,366. 9 Claims. (Cl. 73—51.)



1. A tonometer comprising a body having a foot adapted to rest on the eyeball, a reservoir having a diaphragm forming its bottom, a glass tube in communication with the reservoir, a scale, and a plunger movable through the foot to act upon said diaphragm.

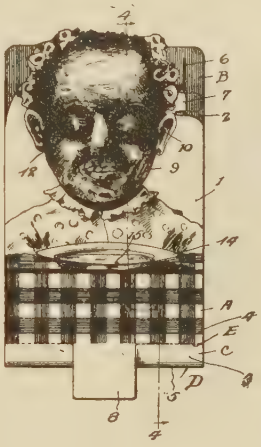
1,419,135. GARBAGE REDUCER AND DISTILLATOR. PHILIP L. GOODMAN, Chicago, Ill. Filed Nov. 6, 1920. Serial No. 422,207. 6 Claims. (Cl. 203—6.)



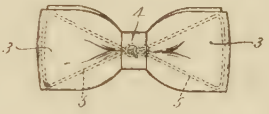
6. A reducer and distillator for garbage and waste matter, comprising a furnace, a plurality of retort-distillators removably supported in the combustion chamber of the furnace, and each having a removable dome, and a discharge opening in said dome for the discharge of vapors, a condenser pipe, valve controlled branch pipes leading therefrom to the several retort-distillators, and each retort-distillator being definitely located and separately removable at any time and invertible, whereby the carbonized contents thereof may be deposited in the combustion chamber, for use as fuel for carrying on the reduction and distillation process.

1,419,136. ADVERTISING NOVELTY. BERNARD K. HAUCK, Cincinnati, Ohio, assignor to Frank D. Spotswood, Lexington, Ky. Filed Dec. 21, 1920. Serial No. 432,207. 6 Claims. (Cl. 46—40.)

1. A novelty comprising a pair of relatively slidable members, one of said members bearing a representation of an animate object and having an opening and a slit, the other member bearing a representation of a movable portion of the body represented upon the first mentioned member movable with relation to the opening upon relative movement of the two members, the said other member being provided also with an outstanding part representative of another object and slidably fitting through the said slit in the first-mentioned member.

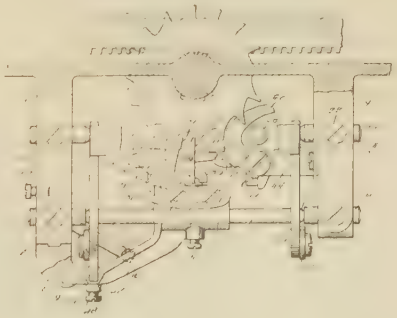


1,419,137. MEN'S NECKWEAR. JAMES A. HEWES, Melrose, Mass., assignor to Hewes & Potter, Boston, Mass., a Copartnership consisting of James A. Hewes and Frank W. Potter. Filed June 17, 1921. Serial No. 478,277. 3 Cairns. (Cl. 2—82.)



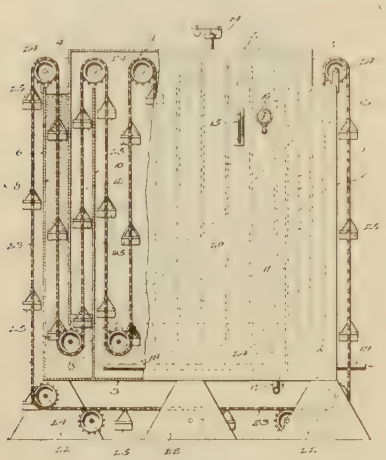
1. A bow necktie including a frame of pliable metal having the general outline of a bow necktie and being readily bendable to impart a variety of shapes to the tie at the will of the wearer.

1,419,138. TYPEWRITER ESCAPEMENT MECHANISM. OTTO A. HOKANSON, Woodstock, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois. Filed July 24, 1918. Serial No. 246,460. 19 Claims. (Cl. 197—87.)



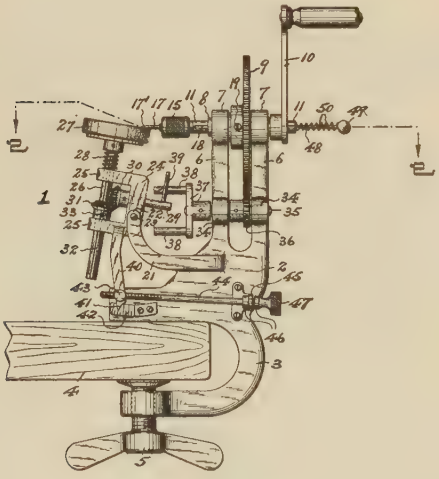
17. In the carriage escapement of a typewriting machine, the combination with an escapement wheel, of cooperating escapement devices including a rigid dog with provision for adjusting said dog in a circular path about the axis of said wheel, and means for securing said dog in its adjusted positions.

1,419,139. CONTINUOUS PRESSURE COOKER. ROBERT L. HUNTER, Norfolk, Va. Filed Dec. 7, 1920. Serial No. 428,976. 4 Claims. (Cl. 126—272.)



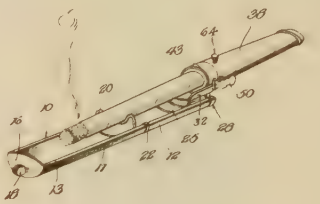
1. A continuous pressure cooker comprising a steam chest, a conveyor entrance between said chest and the atmosphere, a conveyor exit between said chest and the atmosphere, liquid in said entrance and said exit, a connection between the upper part of said exit and the lower part of said entrance adapted to convey liquid, and a conveyor adapted to travel constantly through said chest.

1,419,140. NEEDLE-POINTING MACHINE. RICHARD A. HUTCHINSON, Kenilworth, N. J. Filed Aug. 15, 1919. Serial No. 317,671. 2 Claims. (Cl. 51—131.)



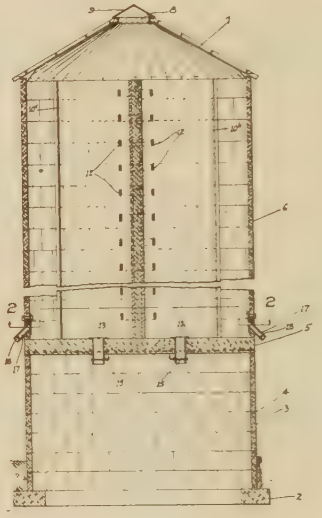
1. In a needle grinding machine, a main frame, a needle holding and rotating means journaled in said main frame, a tilting-frame pivoted to said main frame to situate the same below the plane of and forwardly offset from said needle holding and rotating means, a shaft journaled in said tilting-frame, a grinding wheel on said shaft, means for swinging said tilting-frame to angularly adjust the grinding wheel to a needle to be ground, and transmission means intermediate said needle holding and rotating means and said grinding wheel shaft for rotating the latter.

1,419,141. CIGARETTE HOLDER. JOSEPH B. INGALLS, Chicago, Ill. Filed Apr. 5, 1920. Serial No. 371,311. 14 Claims. (Cl. 131—51.)



2. A device of the class described comprising a tray, a carriage mounted upon the tray, a holder connected with the carriage, and means carried by the tray for supporting the forward portion of a cigarette.

1,419,142. GRAIN BIN. ALLEN D. W. JOHNSON, Anoka, Minn. Filed May 15, 1920. Serial No. 381,698. 3 Claims. (Cl. 72—6.)

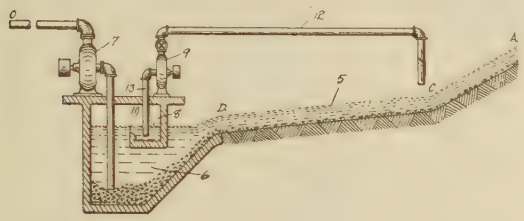


3. A structure of the class described comprising a cylindrical wall having a foundation, a flat horizontal floor supported by said wall and forming therewith a comparatively large chamber in the bottom of the structure, the upper portion of said wall having a roof and a central opening therein, and a space between said roof and floor having a series of diagonal partitions dividing it into a plurality of vertical triangular shaped bins, said horizontal floor having spouts for conducting the contents of said bins to the chamber beneath said floor and the outer walls of said structure having spouts near said floor for delivering the contents of said bin on the outside of said structure, said vertical partitions intersecting at the center of the structure and transmitting the load in said bins laterally to the outer walls thereof.

1,419,143. HYDRAULIC TRANSPORTATION SYSTEM. BARTON M. JONES, Piqua, Ohio. Filed Aug. 19, 1921. Serial No. 493,648. 6 Claims. (Cl. 302—14.)

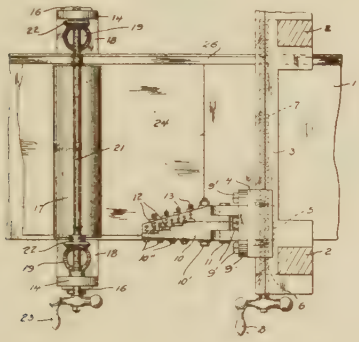
1. In a hydraulic transportation system having in a sluiceway or conduit, a part of lesser transporting ca-

pacity than another part thereof, means for continuously circulating a supplementary quantity of water through



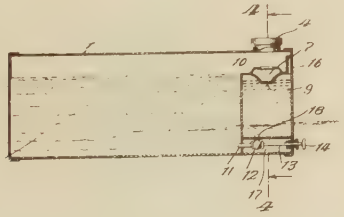
the part first mentioned for the purpose of increasing its transporting capacity, exclusive of said other part.

1,419,144. MACHINE FOR CUTTING SLAB PACKING. WILLIAM J. KENT, Brooklyn, N. Y., assignor to The Mechanical Rubber Company, a Corporation of New Jersey. Filed Jan. 20, 1920. Serial No. 352,892. 14 Claims. (Cl. 164—36.)



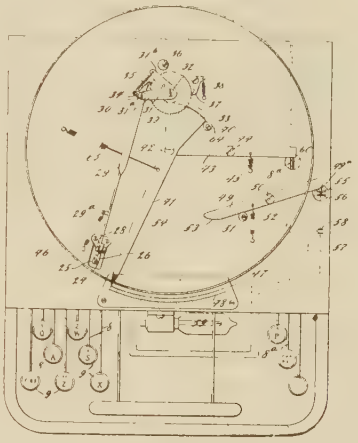
1. In a machine for cutting slab packing, a cutting bed adapted to receive a slab of packing, means coacting with one edge of the slab for preventing transverse movement thereof, and a series of angularly aligned simultaneously operating rigid knives for cutting strips in succession from the free edge of the slab, whereby the cut strips may spread laterally to relieve the knives from binding.

1,419,145. RESERVE-SUPPLY TANK. HENRY H. KLEINBERG, Brooklyn, N. Y. Filed May 10, 1921. Serial No. 468,414. 6 Claims. (Cl. 158—46.5.)



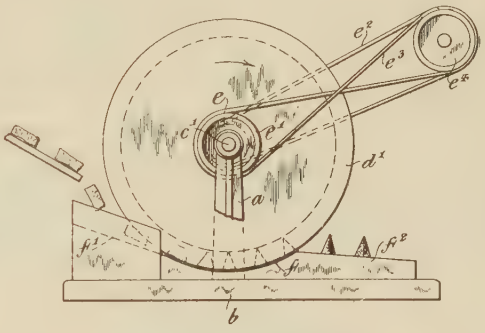
1. The combination of a main fuel storage tank having a round filter opening in its top, an auxiliary storage tank located within said main tank and provided with a top located below the top of the main tank and having inwardly curved portions the edges of which are spaced apart to form a narrow slit-like filter opening extending across the axis of the filter opening in the top of the main tank, curved lips extending upwardly and inwardly from the top of said auxiliary tank and parallel to the filter opening therein, and a valved connection between said tanks.

1,419,146. INDICATING MECHANISM. EDWARD E. KLEINSCHMIDT, Brooklyn, N. Y., assignor to Kleinschmidt Electric Company, Inc., a Corporation of New York. Filed June 21, 1920. Serial No. 390,599. 9 Claims. (Cl. 164—112.)



1. In a keyboard mechanism for a printing telegraph, an indicator comprising an operating bar actuated by the keyboard, a rotary member, mechanism connected to the operating bar for turning the rotary member step by step, an indicating member actuated by said rotary member, and means to disengage the indicating member from the rotary member to permit its return movement independently of the rotary member.

1,419,147. MACHINE FOR MAKING PASTILS. CHARLES A. KLOEPPING, Hoboken, N. J. Filed Oct. 27, 1921. Serial No. 510,693. 3 Claims. (Cl. 18—9.)

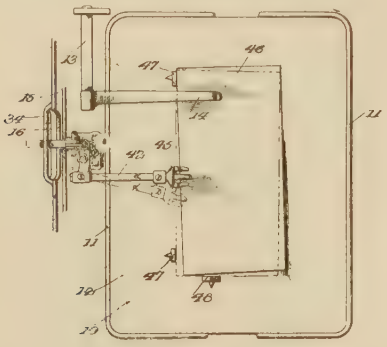


1. A machine for making pastils comprising two discs mounted for rotation upon a common axis and having a forming space between them, means to rotate one of said discs with respect to the other in a direction to impart to a plastic mass between them a rolling motion and a forward movement, and independent means to support the mass during its formation and movement.

1,419,148. SHEET-REGISTERING DEVICE. CHARLES P. KLORER, Pittsburgh, Pa., assignor to Miller Saw-Trimmer Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 24, 1920. Serial No. 353,709. 8 Claims. (Cl. 101—414.)

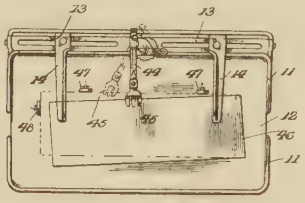
1. A sheet registering device comprising a base for attachment to a platen, an arm pivoted to said base, a sheet-

gripping member connected with said arm at one side of its pivot, and a foot pivoted to said base for cooperative



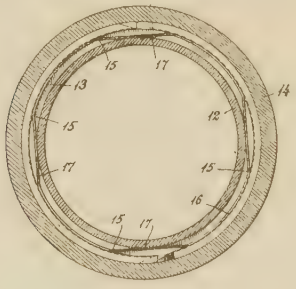
engagement with the gripper bar of said platen, said foot being connected with said arm at the other side of the pivot of the latter.

1,419,149. SHEET-REGISTERING DEVICE. CHARLES P. KLORER, Pittsburgh, Pa., assignor to Miller Saw-Trimmer Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Feb. 2, 1920. Serial No. 355,549. 30 Claims. (Cl. 101—414.)



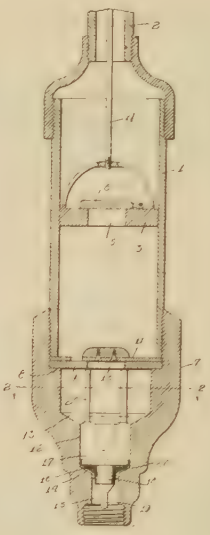
1. A sheet registering device comprising a sheet-engaging member and means for operating said member, said operating means including a bearing member for attachment to a platen, a stem mounted in said bearing member, a gear carried by said stem, and a rack for attachment to the gripper bar of said platen, said rack operating with said gear.

1,419,150. PISTON RING. ALBERT J. H. KUHSIEK and ARTHUR MAYER, Brooklyn, N. Y., assignors to Steel Spring Piston Ring Co., Brooklyn, N. Y., a Corporation of New York. Filed June 11, 1920. Serial No. 388,085. 2 Claims. (Cl. 74—109.)



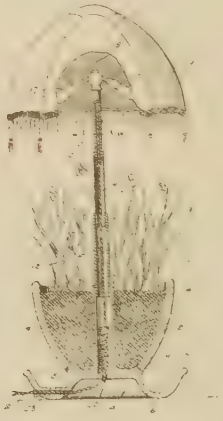
2. A spring for piston rings comprising a split member arranged to encircle a piston and consisting of alternate curved portions and straight portions connecting the same, said curved portions, in use, being concentric to said piston and said straight portions being tangent thereto.

1,419,151. PUMP. CHRISTIAN S. KURTZ, Ephrata, Pa. Filed June 25, 1920. Serial No. 391,673. 7 Claims. (Cl. 103—80.)



1. The combination with a pump cylinder having a valve at its lower end and a lifting piston mounted for reciprocation in the cylinder, of a casing connected to the cylinder and below the valved end thereof, said casing having a reduced bore therein provided with a seat and a passage extending from the bore, and a valve normally resting on said seat and slidable upwardly within the bore during the suction of water through the casing and into the cylinder and having a snug fit with the walls of said bore whereby retarded closing movement is obtained to permit sand to pass downward in advance of the valve.

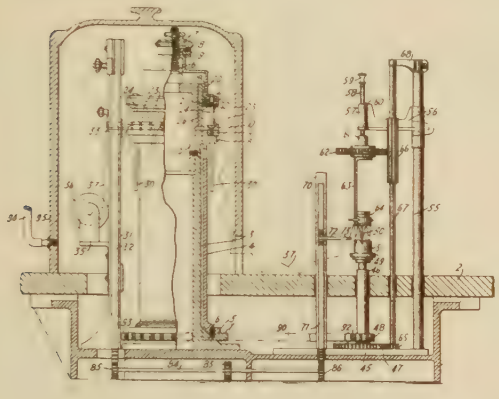
1,419,152. ELECTRIC FLOWER LAMP. HENRY L. LANSING and JANET R. KOHLS, San Francisco, Calif. Filed Mar. 29, 1921. Serial No. 456,519. 1 Claim. (Cl. 240—2.)



An adjustable electric flower lamp comprising a complete plant growing unit consisting of an annular groove, a flower pot supported on the inner rim of said annular groove for receiving soil and moisture, draining passages from the flower pot into the annular groove, and adjustable means for furnishing heat and light to the growing plant in accordance with its requirements comprising a hollow column rising from within the flower pot consisting of a plurality of telescopic sections, each lower section being provided with two longitudinal, oppositely ar-

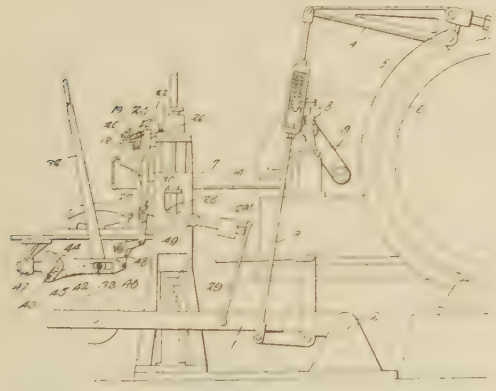
ranged grooves ending at their upper ends into horizontal side passages and each upper section having at its lower end two oppositely arranged studs adapted to engage the grooves and to be anchored in the side passages, a plurality of lamps supported on the uppermost section adapted to be connected to a source of electric power through said hollow column, and a shade supported over the lamps for reflecting the light and heat of the lamps on the flower.

1,419,153. PROCESS AND APPARATUS FOR BENDING FILAMENTS. ANTON LEDERER, Vienna, Austria, assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Dec. 30, 1914. Serial No. 879,761. 25 Claims. (Cl. 176—4.)



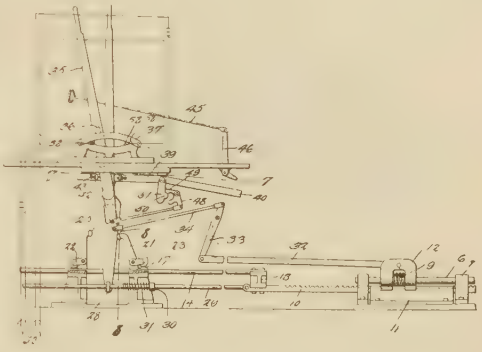
19. A process of forming a filament for an incandescent lamp that comprises forming zigzag bends at predetermined intervals in a length of filament wire, and applying electric current to bent sections of said filament in succession.

1,419,154. OVERSPEED CONTROL FOR HOISTS. DANIEL F. LEPLEY, Connellsville, Pa. Filed Jan. 22, 1921. Serial No. 439,206. 8 Claims. (Cl. 188—174.)



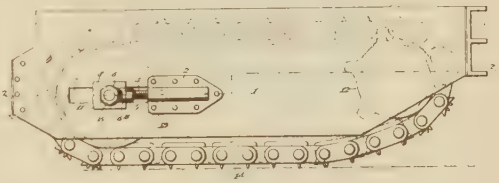
1. In hoist mechanism the combination with a brake, a pressure operated engine, means operated by the engine for applying and releasing the brake, and a floating lever for controlling the actuation of the engine, of a weight controlled plunger, means for directing pressure against the plunger to offset the action of its controlling weight, a governor controlled valve for regulating the flow of pressure to the plunger, a hand operated lever for shifting the floating lever to actuate the engine and release the brake, and means operating automatically by the failure of pressure against the plunger for automatically shifting the floating lever to apply the brake.

1,419,155. HOISTING MECHANISM. DANIEL F. LEPLEY, Connellsville, Pa. Filed Jan. 22, 1921. Serial No. 439,207. 18 Claims. (Cl. 192—116.)



1. In hoisting mechanism the combination with engine and brake control levers and a hoisting drum, of stop devices extending into the paths of the levers, slide rods, means operated by the drum for imparting longitudinal movement to the rods, and cooperating means upon the rods and the stop devices for shifting said devices to engage and move the levers back to hoist stopping positions.

1,419,156. ENDLESS TRACK OR BELT OR CHAIN TIGHTENING MECHANISM FOR TRACTION ENGINES AND FOR OTHER PURPOSES. JOHN GEORGE LEYNER, deceased, late of Littleton, Colo., by Lina M. Leyner, administratrix, Littleton, Colo., assignor to The Leyner Tractor and Manufacturing Company, Denver, Colo., a Corporation of Colorado. Filed Nov. 11, 1920. Serial No. 423,435. 4 Claims. (Cl. 64—52.)



1. In combination with a tractor frame having horizontally slotted side plates, a shaft having journal portions passing through the slots, journal blocks having sliding movement in the slots, means for securing the journal blocks to the ends of the shaft, a threaded socket on each plate in alignment with each slot and a rod having at one end threaded engagement in the threaded socket and projecting at the other end into the block and having a shoulder bearing against the block.

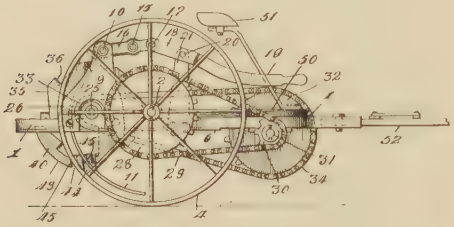
1,419,157. PRODUCING UREA FROM CYANAMIDE. EGIL LIE, Odda, Norway. Filed June 10, 1920. Serial No. 388,031. 8 Claims. (Cl. 260—125.)

8. A process for the conversion of cyanamide material into urea, which comprises treating cyanamide in the presence of water, with calcium nitrate, at a temperature not below 80° C., but below that at which most of the urea formed would be converted into ammonia.

1,419,158. TRASH CUTTER. GEORGE D. LUCE, Watertown, Wis. Division in part of application Serial No. 241,099, filed June 21, 1918. This application filed July 15, 1919. Serial No. 310,936. 10 Claims. (Cl. 55—118.)

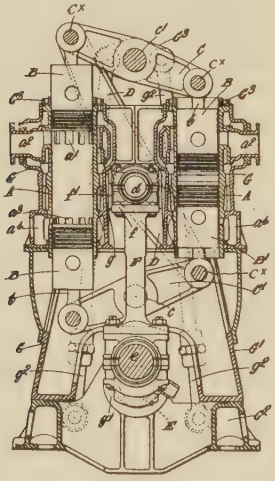
1. In apparatus of the character described, the combination of a plurality of yielding rake teeth forwardly

directed towards their lower ends where they approach the ground surface, rotary cutters arranged adjacent to said teeth, stationary cutters co-operating with said



rotary cutters and a shield through which the said teeth and cutters project for preventing material picked up by said teeth from being carried up the same by said rotary cutters.

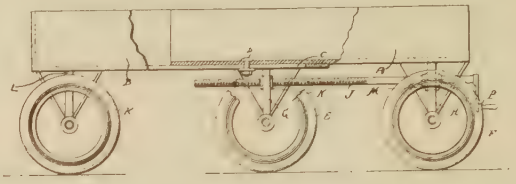
1,419,159. RECIPROCATING ENGINE. JAMES MCKECHNIE, Barrow-in-Furness, England, assignor to Vickers Limited, Westminster, London, England. Filed Oct. 6, 1920. Serial No. 415,165. 5 Claims. (Cl. 121—117.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a reciprocating engine, a pair of cylinders, a pair of oppositely acting pistons in each cylinder, a pair of rocking levers one at each end of the cylinders, driving connections from the said rocking levers to the four pistons, a rigid link connecting diagonally the two rocking levers, a crank shaft and a connecting rod interposed between the said shaft and the rocking lever-link system and driving the shaft from the said system.

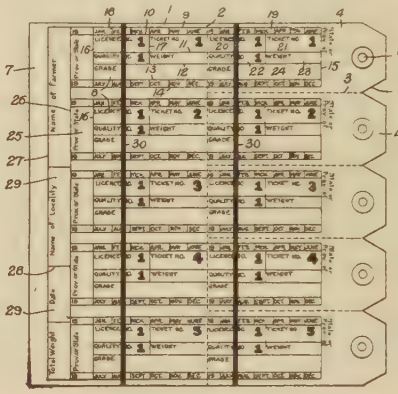
1,419,160. EXTENSIBLE TRUCK BODY. JAMES T. MCKINNON, Detroit, Mich. Filed June 25, 1919. Serial No. 306,522. 1 Claim. (Cl. 280—34.)

In an extensible truck body, the combination with a plurality of pairs of traction wheels, of a pair of telescoping box portions with one or the other of which each of said pairs of traction wheels is connected, headed bolt members carried by the floor of one of said box portions in position to move in longitudinally disposed slots in the floor of the other box portion as the same are moved toward or away from one another, and an actuating screw shaft operatively engaging each of said box



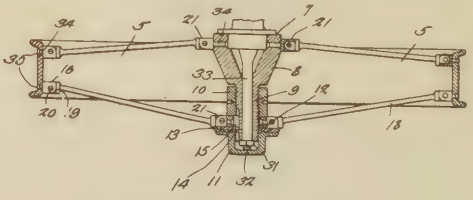
portions, whereby the direction and extent of their movement relatively to one another may be positively controlled.

1,419,161. HAY AND STRAW TAG. GUSTAVES DES TROIS MAISONS, Montreal, Quebec, Canada. Filed Apr. 1, 1921. Serial No. 457,802. 3 Claims. (Cl. 283—18.)



1. A device of the character described comprising a strip of material divided by a line of perforations to constitute two major sections, one section forming a record card and the other section being subdivided to form a plurality of labels, said record card having designated spaces to receive data regarding a gross quantity of merchandise and the labels having designated spaces to receive data relating to separate smaller quantities of said gross quantity the sum of which substantially equals the gross quantity covered by the record card, the record card also having designated spaces associated with each label to receive data relating to the separate quantities substantially the same as the data received on the label.

1,419,162. WHEEL. RICHARD H. MARTIN, Gainesville, Ga. Filed Feb. 17, 1922. Serial No. 537,206. 2 Claims. (Cl. 301—74.)

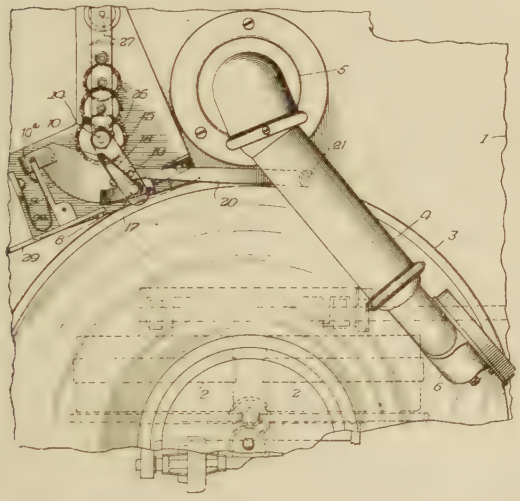


1. A wheel including a sectional rim, means for locking the adjacent ends of the sections together, spaced ears carried by the rim sections, an adjustable hub, ears carried by the adjustable hub, spokes pivotally supported between the ears, said spokes having shoulders, and said shoulders adapted to contact with the ends of the ears.

1,419,163. SHOE RACK. FRED MATHEWS, Chicago, Ill. Filed Apr. 7, 1921. Serial No. 459,504. 8 Claims. (Cl. 211—14.)

1. A shoe rack comprising a supporting frame, a plurality of substantially V-shaped shoe seats formed on said frame each adapted to grip the shank of a shoe, and a shoe rest disposed in front of said seats and below the point of gripping thereof.

1,419,164. NONSET STOP FOR PHONOGRAPHS. WILLIAM O. MEISSNER, Chicago, Ill., assignor to Sterling Devices Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 28, 1921. Serial No. 448,411. 14 Claims. (Cl. 192—116.)

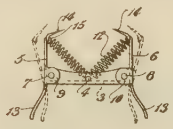


1. The combination of the tone arm and motor brake of a phonograph, with spring mechanism adapted to receive and store energy from the movement of the tone arm while a record is being played and to expend the stored energy, upon the cessation of tone arm movement, to set the motor brake.

14. In a phonograph non-set stop, in combination with the pivoted tone arm of a phonograph, a member pivoted similarly to the pivoting of the tone arm, a connection between said member and the tone arm so that movement of the tone arm moves said member, a weight mounted to slide vertically on said member, an inclined track adapted to raise said weight when said tone arm moves said member in one direction, an element on said member adapted to hold said weight in raised position while said tone arm is moving said member in the opposite direction and to release said weight when said tone arm ceases to function, and means actuated by release of said weight for stopping the phonograph.

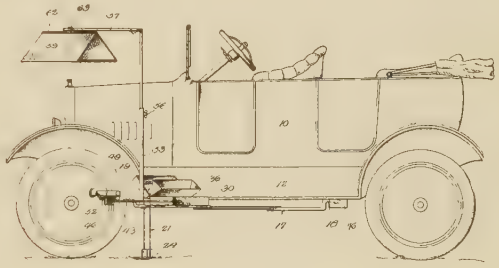
1,419,165. TAILOR'S TRY-ON CLASP. FRANK V. MOREN, West Springfield, Mass. Filed Mar. 9, 1922. Serial No. 542,337. 3 Claims. (Cl. 24—87.)

1. In a tailor's try-on clasp, the combination, of a channel shaped member, a pin located therein, pointed members pivotally connected to the channel shaped member and each normally having a bearing on its respective end of the channel shaped member for limiting its inward movement, springs connecting the pin and pointed members for drawing the pivotal members toward each



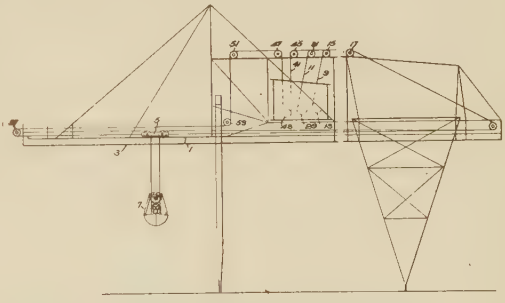
other and against the ends of the channel shaped member but permitting their separation when the clasp is applied to the meeting edges of a garment, as described.

1,419,166. TOOL KIT FOR MOTOR VEHICLES. RAYMOND F. NELSON, Detroit, Mich. Filed Sept. 30, 1920. Serial No. 413,906. 15 Claims. (Cl. 224—29.)



1. The combination with a motor vehicle, of tool holding means pivotally mounted beneath the vehicle body and shiftable to a position projecting at either one side or the other of the vehicle beyond the lines thereof.

1,419,167. HOISTING APPARATUS. ALMON E. NORRIS, Brookline, Mass. Filed Jan. 3, 1916. Serial No. 69,879. 53 Claims. (Cl. 214—115.)

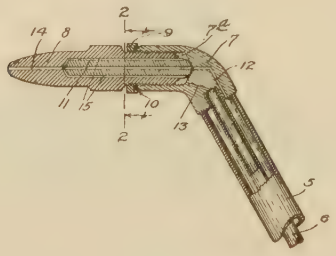


1. A hoisting apparatus comprising in combination, an opening and closing cable and a holding cable for a grab, drums for said cables, motor means, clutches for connecting said drums with said motor means, and controlling means for said clutches including valves for controlling the application of pressure fluid to said clutches, and controlling means for said valves having interconnections for causing the valves automatically to maintain different pressures on said clutches.

1,419,168. WELDING TORCH. REUBEN B. OMAN, Willmar, Minn. Filed Oct. 13, 1919. Serial No. 330,252. 4 Claims. (Cl. 158—27.4.)

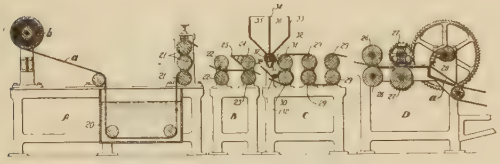
2. A welding torch having in combination a head, concentrically arranged oxygen and acetylene pipes connected thereto, the inner pipe carrying acetylene which will be cooled by the oxygen which is carried in the outer pipe, a tip member and a core member, said core member having an axial passage for oxygen throughout its length

and separated longitudinal peripheral passages for acetylene throughout its length, said longitudinal passages joining said axial passage at a point adjacent the tip end



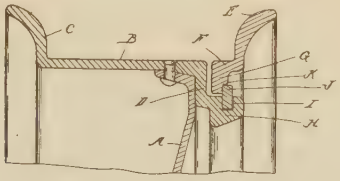
and said tip having a small axial opening extending from said point to its front end whereby back firing is prevented.

1,419,169. MACHINE FOR MAKING ORNAMENTAL ROOFING. FREDERICK C. OVERBURY, Hillsdale, N. J., assignor to The Flintkote Company, Boston, Mass., a Corporation of Massachusetts. Original application filed Mar. 6, 1917, Serial No. 152,492. Divided and this application filed Nov. 3, 1921. Serial No. 512,502. 4 Claims. (Cl. 91—43.)



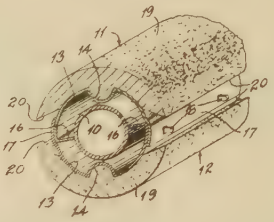
3. Apparatus for supplying crushed slate to a sheet of coated roofing, comprising separate receptacles for containing masses of slate of different colors respectively, a trough for showering the sheet with such slate, and mechanism for delivering slate from certain of said receptacles alternately to said trough.

1,419,170. TIRE RIM. ALDEN L. PUTNAM, Detroit, Mich., assignor to Detroit Pressed Steel Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 9, 1920. Serial No. 372,614. 3 Claims. (Cl. 152—21.)



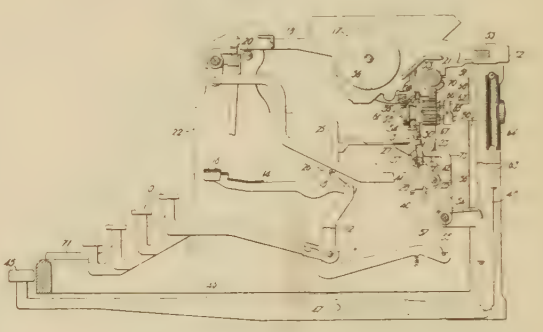
1. The combination with a tire-holding rim having a fixed flange and a removable complementary flange, of a radially inwardly extending flange on said rim provided with a laterally outwardly-extending portion having a groove in its peripheral surface, a split locking ring for engaging said groove, and a radially inwardly-extending portion on said removable flange having a lateral play between said ring and said radially inwardly extending flange, affording clearance for removal of the locking ring in the inner limiting position of said play and in the opposite limiting position having locking engagement with said split ring to retain the latter in its groove.

1,419,171. INSULATING COVERING FOR PIPES. CHARLES READ, Brooklyn, N. Y. Filed Oct. 7, 1920. Serial No. 415,229. 2 Claims. (Cl. 154—45.)



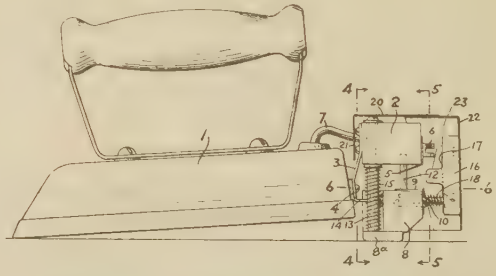
1. An insulating covering for pipes comprising a plurality of mating foundation sections, each having a plurality of spaced staggered recesses therein; a covering of insulating material secured to the outer side of each covering; locking means for securing the foundation sections together and means for spacing the covering away from a pipe to provide a dead air chamber therearound.

1,419,172. TYPEWRITING MACHINE. HENRY RESCH, Bayonne, N. J., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed June 2, 1920. Serial No. 385,914. 13 Claims. (Cl. 197—176.)



1. In a typewriting machine, the combination of a carriage movable back and forth, tabulating mechanism including keys, connections operabel by said keys, a universal bar operable by said connections to release said carriage, an arm extending from said universal bar, escapement mechanism including a loose dog having a tail thereon, means to operate said loose dog on the return of said carriage to bring the tail of said dog into the path of said arm, to lock said universal bar to prevent the operation of said connections while said carriage is returning.

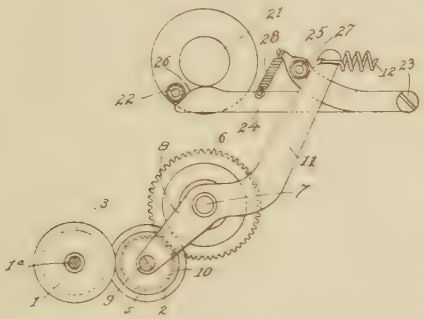
1,419,173. ELECTRIC IRON. JOSEPH M. SECHE, Philadelphia, Pa. Filed Jan. 24, 1922. Serial No. 531,328 8 Claims. (Cl. 219—25.)



4. An electric iron having in combination circuit connections, a fixed terminal block arranged at the heel of

the iron and having angularly disposed contacts, a movable terminal block adapted for projection beyond the face of the iron and having angularly disposed contacts, a movable contact block cooperating with said terminal blocks and having bridge contacts, and guides and springs for said movable blocks, substantially as described.

1,419,174. TRANSMISSION MECHANISM. JOHN Q. SHERMAN and ALBERT W. METZNER, Dayton, Ohio; said Metzner assignor to said Sherman. Filed Nov. 12, 1919. Serial No. 337,472. 6 Claims. (Cl. 74—26.)

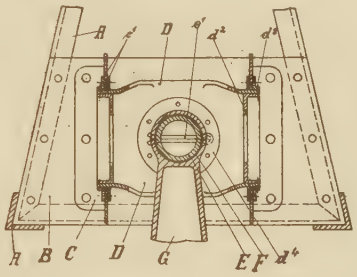


1. A transmission mechanism comprising essentially a pair of friction wheels, one of same being relatively movable to the other, said wheels having their peripheries adapted to contact with each other, said peripheries being shaped, for the one wheel as a V-shaped groove and for the other wheel as a V-shaped bevel, means for yieldably maintaining contact of the said wheels, and means for momentarily enforcing a positive contact thereof at the inception of each operation.

1,419,175. SHEET-REGISTERING DEVICE. WALTER H. SMITH, Pittsburgh, Pa., assignor to Miller Saw-Trimmer Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 20, 1920. Serial No. 352,856. 8 Claims. (Cl. 101—414.)

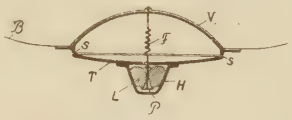
1. A sheet registering device comprising a member for pivotal connection with a sheet support, a sheet engaging member adjustably connected with said first named member, and means engaging said first named member between its pivot and said second named member, for rocking said first named member about its pivot, thereby to bring a sheet engaged by said engaging member into registered position.

1,419,176. CARDANIC SUSPENSION. KARL STAHL, Friedrichshafen, Germany, assignor to the Firm Luftschiffbau Zeppelin Gesellschaft mit beschrankter Haftung, Friedrichshafen, Germany. Filed June 28, 1920. Serial No. 392,599. 2 Claims. (Cl. 244—3.)



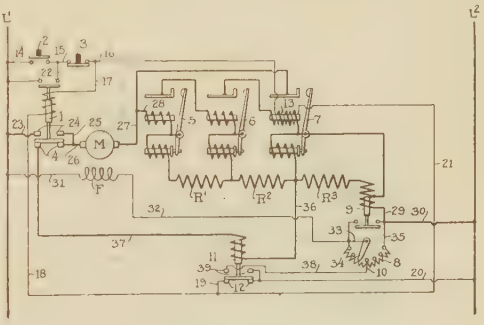
1. In aircraft construction in combination, a cardanic support comprising substantially upright supporting plates, a substantially tubular bearing journalled in said plates, a load carrying sleeve journalled in said bearing at right angles thereto and means to support the load from said sleeve.

1,419,177. SAFETY VALVE. KARL STAHL, Friedrichshafen, Germany, assignor to the Firm Luftschiffbau Zeppelin Gesellschaft mit beschrankter Haftung, Friedrichshafen, Germany. Filed June 28, 1920. Serial No. 392,600. 3 Claims. (Cl. 244—31.)



1. In gas-supported aircraft in combination, a valve, means for keeping said valve closed under a predetermined gas pressure and means influenced by variations of pressure of the surrounding air, for exerting additional closing pressure on said valve.

1,419,178. CONTROLLER FOR ELECTRIC MOTORS. HAROLD W. STEVENS, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 26, 1919. Serial No. 347,303. 11 Claims. (Cl. 172—288.)

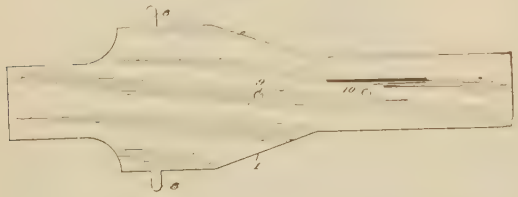


4. In a dynamic braking controller for an electric motor having a shunt field, the combination with field excitation varying means for selectively controlling the running speed of the motor, of means to act automatically upon said former means to render the field excitation for dynamic braking inversely proportional to the running speed selected by said former means, for running speeds within a predetermined range.

11. The combination with an electric motor having a shunt field and circuit connections providing for dynamic

braking, of field weakening means for effecting acceleration of the motor, armature resistance for limiting surges of motor current both for starting and dynamic braking, and means providing against line connection of the motor during continuance of dynamic braking action and pending action to provide a predetermined field strength and inclusion of a predetermined value of said resistance in circuit with the motor.

1,419,179. MAIL AND COIN HOLDING DEVICE. HARRY O. TEBBETTS, Waterville, Me. Filed Jan. 18, 1921. Serial No. 438,083. 3 Claims. (Cl. 232—33.)

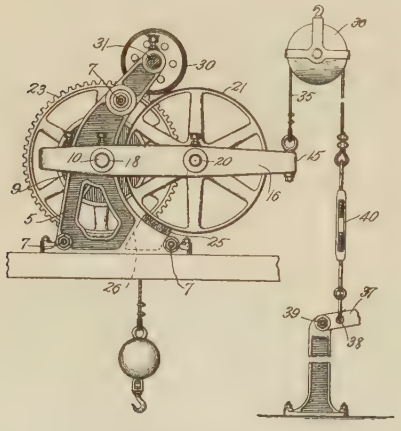


1. A device of the kind described, said device being substantially triangular in cross-section, the base and the perpendicular of said triangular-shaped device being adapted for attachment to a flat surface, and the hypothenuse of said triangular-shaped device comprising spring actuated mail holding jaws and a coin receptacle.

1,419,180. AERONAUTICAL PROPELLER. PROCTER THOMSON and MICHAEL J. WHELAN, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 15, 1917. Serial No. 207,282. 1 Claim. (Cl. 170—159.)

An aeronautical propeller comprising a core made up of a plurality of layers of wood adhesively secured together and having a roughened surface and an enclosing shell of hard rubber vulcanized to and integrally united with said core.

1,419,181. MECHANICAL HOIST. ADOLPH W. WAERN, Brooklyn, N. Y., assignor to Joseph H. Wallace & Co., New York, N. Y., a Corporation of New York. Filed Mar. 15, 1920. Serial No. 365,821. 8 Claims. (Cl. 192—4.)

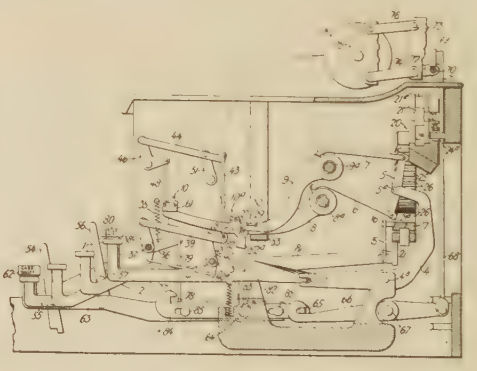


1. In a mechanical hoist, the combination with a hoisting drum provided with a gear, of a swinging lever, a friction wheel supported by said lever and provided with a pinion in mesh with the drum gear, a friction drive wheel and a brake shoe disposed at opposite sides of the first mentioned friction wheel and said brake shoe being arranged to form a rest for the said friction wheel, and means for swinging the lever to carry said first mentioned friction wheel from engagement with the brake shoe into engagement with the drive wheel.

2. In a mechanical hoist, the combination with a hoisting drum provided with a gear, of a swinging lever, a friction wheel supported by said lever and provided with a pinion in mesh with the drum gear, a friction drive wheel pinion and a brake shoe disposed at opposite sides of the first mentioned friction wheel and said brake shoe being arranged to form a rest for the said friction wheel, and means for swinging the lever to carry said first mentioned friction wheel from engagement with the brake shoe into engagement with the drive wheel, said means including a pivoted lever and a flexible connection extending from a point adjacent the fulcrum of said lever to the free end of the swinging lever.

7. A mechanical hoist comprising side frames, a drive shaft journaled between the upper portions of said side frames and provided with means for the application of power thereto, a friction drive wheel on said shaft, a hoisting drum journalled between the said frames below the drive shaft, a yoke pivotally supported by the side frames on an axis substantially concentric to the axis of the hoisting drum, a shaft journalled in the yoke, gearing between said shaft and the hoisting drum, a friction wheel on the shaft arranged for engagement with the friction drive wheel and a brake shoe supported at the lower portion of one of the side frames for engagement with the friction wheel.

1,419,182. TYPEWRITING MACHINE. JOHN WALDHEIM, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Original application filed Nov. 27, 1917, Serial No. 204,157. Divided and this application filed Apr. 20, 1920. Serial No. 375,201. 13 Claims. (Cl. 197—71.)

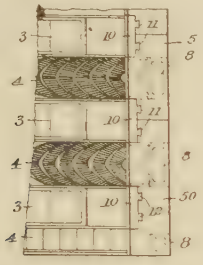


1. The combination with a platen, of type-bars, two independently-actuable case-shift mechanisms, a case-shift key, and means for rendering either one of said case-shift mechanisms under the control of said case-shift key.

1,419,183. AIR-DISTRIBUTING BOX FOR STOKERS. ARTHUR WATHEY, Cleveland, Ohio. Filed Mar. 26, 1921. Serial No. 455,815. 2 Claims. (Cl. 110—44.)

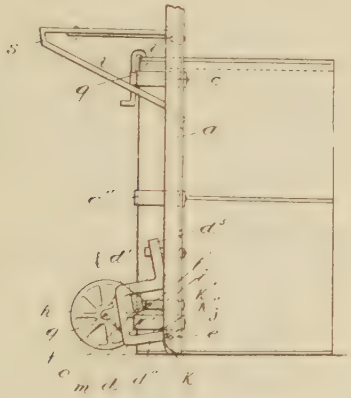
1. In an underfeed stoker comprising a plurality of alternately arranged fuel retorts and twyer boxes, an air box arranged transversly of said retorts and twyer boxes and above the same, and having ducts leading to said twyer boxes, said air box comprising a plurality of sec-

tions arranged end to end and meeting above the retorts, there being removable wall portions of said air box ar-



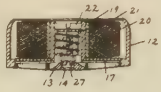
ranged above the retorts and overlapping the meeting ends of said sections.

1,419,184. TRUCK. ALEXANDER WATSON, Toronto, Ontario, Canada. Filed Dec. 22, 1920. Serial No. 432,593. 8 Claims. (Cl. 280—57.)



1. A truck comprising a frame, truck wheels oscillatingly journalled thereto, and an adjustable load engaging toe located at the extreme end of the frame and actuated by the oscillation of the wheels to move to and from the load engaging position.

1,419,185. SEWING-MACHINE BOBBIN CASE. LUCIUS E. WEAVER, East Hampton, Conn., assignor to Summit Thread Company, East Hampton, Conn., a Corporation of Maine. Filed July 15, 1921. Serial No. 484,910. 1 Claim. (Cl. 112—233.)

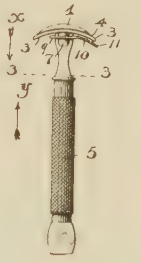


In a sewing-machine bobbin case, in combination, a case body having a fixed bottom member containing a central socket; a tubular post fixed to said bottom member, the bore of the post being concentric with said socket; an annular collar seated on the bottom member and embracing the base portion of the post; an annular bobbin-supporting plate, having a tubular hub fixed to said plate and formed externally to engage the core of a universally wound bobbin, the bore of said hub being formed to receive and turn on said collar, and provided with an annular internal lip spaced from the collar, said lip and collar forming opposed spring abutments; a stud having a head formed to enter the hub bore and bear on one side of said lip, and a split tubular shank formed to enter the hollow post, the bore of said shank being tapered and screw-threaded; a tapered screw formed to enter the bottom member socket and expand the shank, to cause a frictional engagement between the latter and the bore of the hollow post; and a spring interposed between the abutments formed by the said collar and lip, and acting to press the said lip against the stud head, and thereby frictionally oppose rotation of the bobbin-supporting plate and its hub.

1,419,186. PROCESS OF PRODUCING HIGH-PERCENTAGE PURE ANTHRACENE. LEOPOLD WEIL, Hamburg, Germany. Filed Dec. 21, 1921. Serial No. 524,042. 6 Claims. (Cl. 260—168.)

1. The process of producing high-percentage anthracene which consists in distilling crude anthracene with hydrocarbons of petroleum of about three hundred degrees boiling point, crystallizing the anthracene from the distillate, and separating the crystallized mass from the liquid.

1,419,187. HAIR TRIMMING OR CUTTING ATTACHMENT FOR SAFETY RAZORS. DAVID W. WILSON, West Orange, N. J. Filed June 12, 1920. Serial No. 388,449. 6 Claims. (Cl. 30—12.)

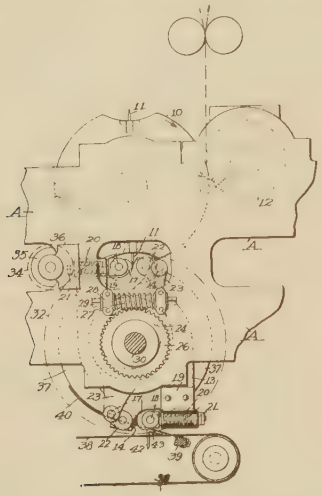


1. The combination with a safety-razor comprising a razor-blade, a razor-guard, a handle, and a screw for securing said elements in their relatively fixed positions, of an auxiliary guard having a slotted portion adapted to be slipped over the shank of said screw and adapted to be adjusted with relation to the razor-blade and secured in a fixed position with relation to the razor-guard and razor-blade by means of said handle without removal of the handle, so as to adapt the safety-razor as a hair-trimming implement.

1,419,188. FOLDING DELIVERY MECHANISM. HENRY A. WISE WOOD, New York, N. Y., and CONRAD NORDFORS, Jersey City Heights, N. J., assignors to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Feb. 2, 1915, Serial No. 5,641. Renewed Oct. 14, 1921. Serial No. 507,751. 13 Claims. (Cl. 270—76.)

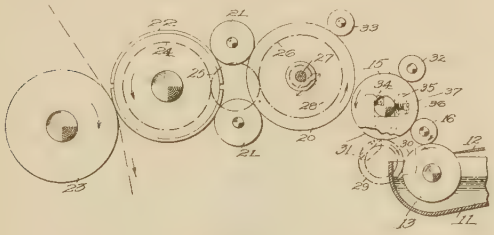
1. In a folding delivery mechanism, the combination with a folding cylinder having a tucker blade, of a rotary carrier, and a pair of rollers on the carrier for receiving sheets from the folding cylinder and gripping

them at the fold, said rollers being turned on parallel axes, and each having a gripping surface which consti-



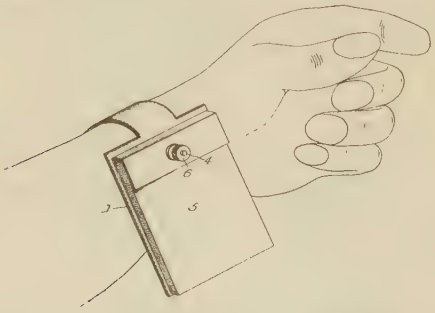
tutes part of a modified cylinder having the center of oscillation as its central axis and flattened on the outer side.

1,419,189. CONTINUOUS INK-DISTRIBUTING MECHANISM. HENRY A. WISE WOOD, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Oct. 9, 1918, Serial No. 257,507. Renewed Nov. 25, 1921. Serial No. 517,810. 4 Claims. (Cl. 101—359.)



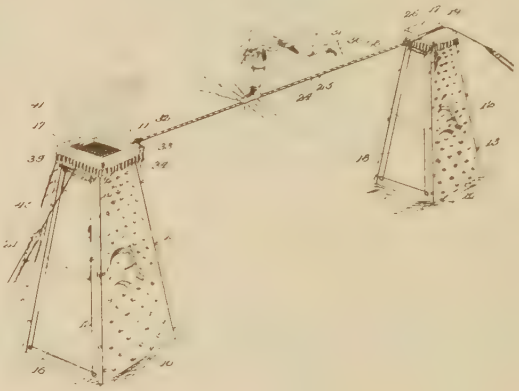
1. In an inking mechanism, the combination with a fountain roll and an ink distributing cylinder for taking ink therefrom geared together to run at the same surface speed, of a pick-up and distributing cylinder rotatable at a materially higher surface velocity than said distributing cylinder, located near enough to its surface to take ink directly therefrom, and running in the opposite direction at their contiguous surfaces, one of said cylinders having a yielding emergency release.

1,419,190. MEMORANDUM PAD. FRANK ZIPOY, Minneapolis, Minn. Filed July 25, 1921. Serial No. 487,322. 2 Claims. (Cl. 281—44.)



1. A device of the class described comprising a plate having a reduced extension at one end thereof, said extension being of curved shape to engage the writ, a pad and means for detachably connecting the pad with the plate.

1,419,191. THEATRICAL APPLIANCE. EDNA H. ACKER, Washington, D. C., assignor to Samuel N. Acker, Washington, D. C. Filed Apr. 5, 1919. Serial No. 287,772. 6 Claims. (Cl. 46—70.)

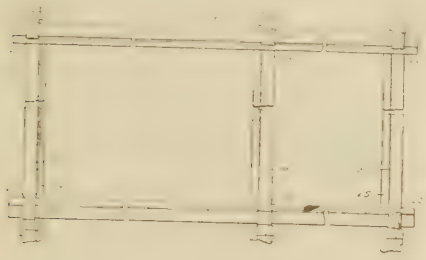


1. In theatrical appliances, a supporting wire, insulating material covering a portion of the wire, spaced conductors wound around the wire, insulating material interposed between the conductors, other insulating material extending over the conductors and having portions thereof cut away to expose said conductors, the conductors being spaced apart at one end of the wire to form an open circuit, and an energized circuit operatively connected with the conductors at the opposite end of the wire and adapted to be closed when the conductors are bridged.

1,419,192. DOFFING APPARATUS. EUGENE R. ALDERMAN, Holyoke, Mass. Filed Jan. 5, 1922. Serial No. 527,124. 15 Claims. (Cl. 118—18.)

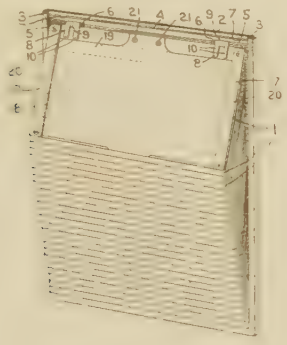
1. The combination with a cap spinning machine having spindles and caps supported thereon, of doffing mechanism comprising pivotally mounted members adapted to be swung into position beneath the caps to support the latter by engagement with their lower edges in removing the same from said spindles.

1,419,193. CLAMP. NAPOLEON B. ALLEN, Brooklyn, N. Y. Filed June 30, 1920. Serial No. 392,959. 3 Claims. (Cl. 45—24.)



1. A clamp comprising a body portion having lateral, parallel extensions; a bracket support integral with one of said extensions for projection vertically therefrom; and a wedge member pivotally united with the other of said extensions for movement under the opposite edges of said extension to rock said body portion and bracket support connected therewith.

1,419,194. INDEX. STANLEY ANTHONY, Boston, Mass. Filed Aug. 14, 1916. Serial No. 114,674. 17 Claims. (Cl. 129—16.)



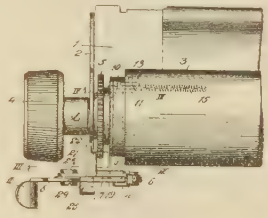
1. In an index, the combination with a holder having a retaining lip at each edge, of a plurality of resilient card carriers removably retained in position by said lips, an index card carried by each carrier said carrier and card being constructed to permit the removal of the card from the carrier without removing the carrier from the holder, each carrier having at some point between its end an increased lateral dimension whereby the carriers are prevented from slipping past each other in the holder.

6. In an index, the combination with a card having two separated apertures spaced from its edge, of a hinge member presenting a resilient portion to overlie one face of the card and having two separated lips to enter said apertures and also having a resilient portion to overlie the other face of the card and yieldingly hold said lips in said apertures and a carrier to which said hinge member is pivoted.

10. In an index, the combination with a holder, of a plurality of carriers removably sustained thereby, each formed of wire bent to present two card-carrying pintles, a card having two hinge members removably secured thereto and each provided with a pintle-receiving portion which is pivotally mounted on one of the pintles.

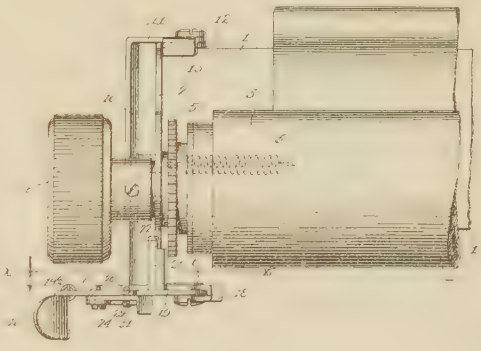
17. The combination with a main frame, of a holder mounted therein, said holder comprising a body portion having confining lips at either side thereof, a transparent sheath extending across the face of the body portion and having its free edges detachably seated beneath said lips and a plurality of index slips removably supported between the sheath and body portion.

1,419,195. TYPEWRITING MACHINE. FRANK HURBERT ARMSTRONG, Auburn, and EDWIN L. HARMON, Groton, N. Y., assignors to Corona Typewriter Company, Inc., Groton, N. Y., a Corporation of New York. Filed Oct. 3, 1918. Serial No. 256,684. 15 Claims. (Cl. 197—114.)



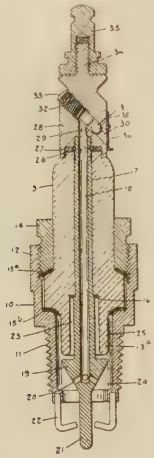
1. In a typewriting machine, the combination of a platen frame, a rotary platen therein, a line space ratchet wheel connected to said platen, a line space lever pivoted on said frame, a line space pawl pivoted on the lever and provided with a nose adapted to engage the ratchet wheel, a flexible index device mounted on the pivot of the line space pawl and adapted to be moved toward or from the line space pawl, an abutment formed on said index device and extending through a segmental slot formed in the line space lever, a lug on said index device adapted to engage index notches formed in the line space lever, said abutment being adapted to engage the line space pawl at the completion of the line spacing operation.

1,419,196. TYPEWRITING MACHINE. FRANK HURBERT ARMSTRONG, Auburn, N. Y., assignor to Corona Typewriter Company, Inc., Groton, N. Y., a Corporation of New York. Filed Oct. 3, 1918. Serial No. 256,685. 27 Claims. (Cl. 197—114.)



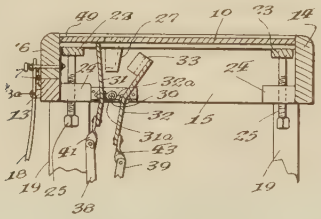
1. In a typewriting machine, the combination of a platen carriage, a platen journalled in the carriage, a ratchet wheel rotatable with the platen and provided with peripheral teeth projecting from the body portion of the wheel in the plane of said body portion, a line space lever pivotally held to the carriage to swing transversely of the ratchet wheel, a pawl pivotally held to the lever to swing about an axle parallel with the ratchet wheel and having a nose adapted to engage between the teeth on said wheel and a limiting abutment adapted to engage one side face of the wheel, an adjustable index lever pivoted on the line space lever, and a stop carried by said lever adapted to be engaged by the pawl after a predetermined movement of the line space lever to arrest the pivotal movement of the pawl and cause stoppage of the movement of the line space lever and ratchet wheel through the medium of said nose and abutment.

1,419,197. SPARK PLUG. HARRY W. ASCHINGER, Indianapolis, Ind. Filed Jan. 10, 1920. Serial No. 350,622. 3 Claims. (Cl. 123—169.)



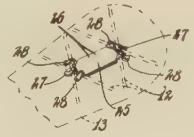
1. In a spark plug for an engine cylinder the combination with an insulator having a petticoat of a central electrode mounted therein in spaced relation with said petticoat to form an annular channel therebetween wherein high temperatures may be maintained, said electrode having a longitudinal passage therein, and a shield extending beneath said petticoat having one face in spaced relation therewith, to substantially close said channel and separate the same from the cylinder, said electrode having radially extending discharge ports communicating with said passage to supply air for cooling the other face of said shield.

1,419,198. TILE-MOLDING MACHINE. BYRON L. BACOT, McComb, Miss. Filed June 23, 1921. Serial No. 479,889. 6 Claims. (Cl. 25—42.)



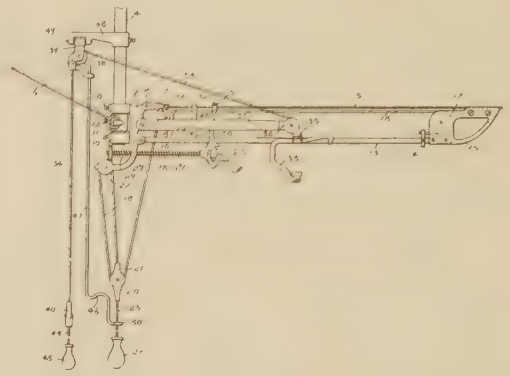
1. In a tile molding machine, a frame, corner blocks in the frame, screws threaded vertically through the corner blocks, cross strips carried by the screws at the respective ends of the frame, and a pallet seating on said cross strips.

1,419,199. NONSLIPPING SHOE TONGUE. GEORGE BADICH, Knoxville, Tenn. Filed Mar. 1, 1922. Serial No. 540,194. 2 Claims. (Cl. 24—117.)



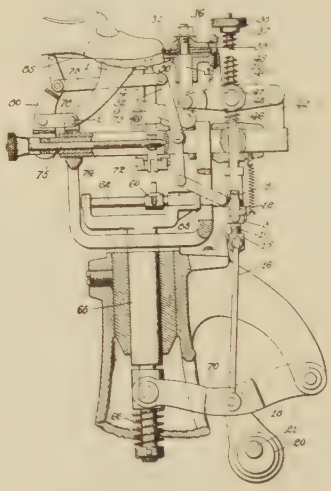
1. An attachment for shoes comprising a plate adapted to be secured to the tongue thereof, said plate having clips projecting from opposite ends, said clips being adapted to project over the face of the tongue and to receive a shoe lace between themselves and the tongue, for the purpose specified.

1,419,200. STORE-SERVICE APPARATUS. JAMES L. BALDWIN, Chicago, Ill. Filed Nov. 12, 1920. Serial No. 423,594. 4 Claims. (Cl. 186—8.)



4. In a device of the class described, a support, a track wire, an elevator, a pull cord for operating the elevator, a pulley over which said pull cord travels, a pulley bracket mounted on the support to swing about a horizontal axis in which the pulley is mounted, a stop rod for the elevator cord rigidly mounted on said bracket to swing therewith, and a means on the elevator cord to engage the said stop rod.

1,419,201. METHOD OF MAKING SHOES. ARTHUR BATES, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed May 31, 1916, Serial No. 100,950. Divided and this application filed Nov. 12, 1920. Serial No. 423,630. 20 Claims. (Cl. 12—145.)

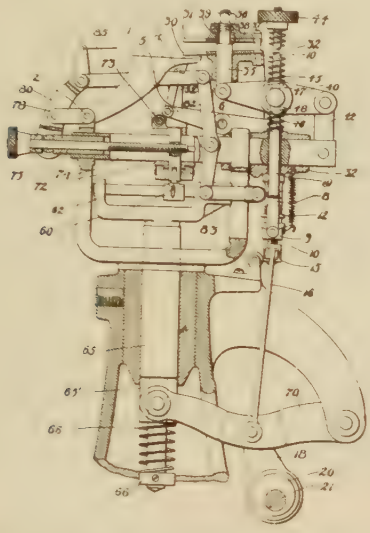


1. That improvement in methods of making shoes which consists in mounting an upper on a shoe form, holding the upper free from wrinkles round the end of the form, and while holding it free from wrinkles drawing it inwardly round the end of the form by the aid of a flexible wiper conformable at all points to the contour of the shoe.

1,419,202. UPPER-SHAPING MACHINE. ARTHUR BATES, Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 31, 1916. Serial No. 100,950. 49 Claims. (Cl. 12—10.)

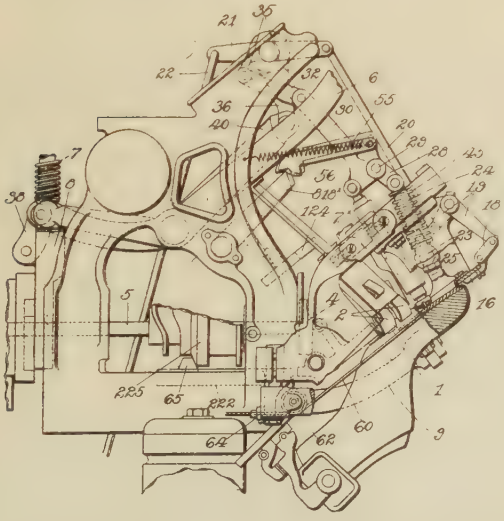
1. A lasting or pulling-over and lasting machine for veldtschoen work comprising means for positioning a last,

a retarder for engaging the margin of an upper upon the last substantially continuously from one side of the toe end to the other and constructed and arranged to permit the different parts of the margin to move relatively on the application of unequal tensions to the upper at different points around the toe, power-operated means for producing relative movement between the last positioning



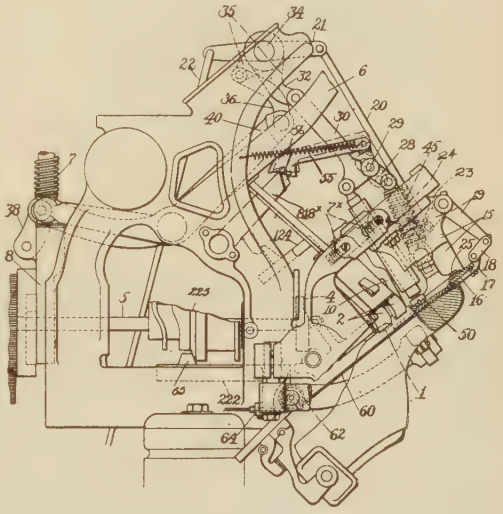
means and the retarder to conform the upper to the top of the last, and a wire loop wiper adapted to be applied loosely about the edge of the shoe at the forepart and to effect in the lasting of each shoe a drawing of the upper towards and a wiping thereof into conformity with the edge of the last bottom, together with power-operated mechanism for relatively operating the wiper and the last positioning means to effect said wiping.

1,419,203. METHOD OF MAKING SHOES. ARTHUR BATES, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed June 15, 1916, Serial No. 103,747. Divided and this application filed Nov. 12, 1920. Serial No. 423,631. 12 Claims. (Cl. 12—145.)



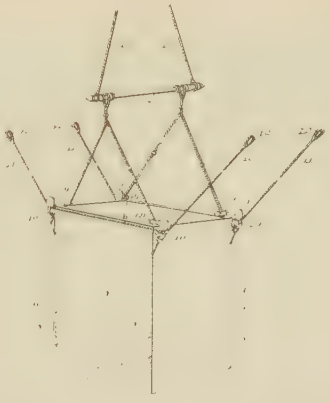
1. That improvement in methods of making shoes which consists in working the margin of an upper inwardly round the end of a last and over the feather of a sole on the bottom of the last into lasted relation to the rib or shoulder of the sole by the aid of a flexible wiper conformable at all points to the contour of the shoe, and while thus working the upper inwardly over the sole holding the margin of the upper clamped on a substantially continuous line round the toe to maintain the upper in an unwrinkled condition for the action of the flexible wiper.

1,419,204. UPPER-SHAPING MACHINE. ARTHUR BATES, Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 15, 1916. Serial No. 103,747. 52 Claims. (Cl. 12—4.)



1. A pulling-over machine having, in combination, a sole rest, a guide, a plate movable in the guide toward and from the sole rest and having its inner end recessed to embrace the toe of a shoe presented to the sole rest and permit the toe of the shoe upper to be spread over it, a clamping member movable in the guide substantially perpendicularly to the plate to clamp the upper, and yielding means to operate said member to clamp the toe of the upper on a substantially continuous line extending around the toe.

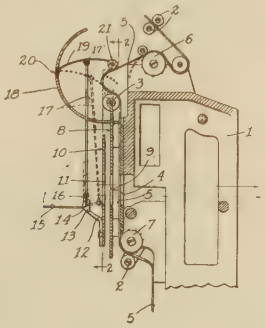
1,419,205. CAR SUSPENSION FOR BALLOONS. RAYMOND S. BAMBERGER, Arcadia, Calif. Filed Sept. 4, 1920. Serial No. 408,251. 5 Claims. (Cl. 244—3.)



1. In car suspension for balloons, the combination of a balloon, a car, and means for suspending the car from

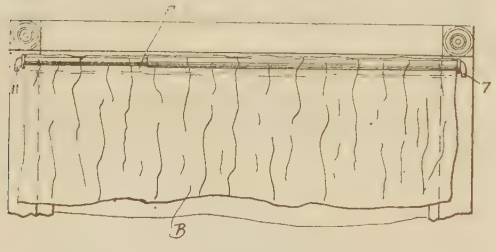
the balloon, comprising fore and aft suspensions having a supporting and running connection with the car wholly above the center of gravity of the car, said suspensions diverging transversely and upwardly and serving as braking means of progressively increasing resistance to the movement of the car away from its normal position.

1,419,206. FIRE PREVENTER FOR MOVING-PICTURE MACHINES. JOHN BECKHAM, Austin, Tex. Filed May 25, 1920. Serial No. 384,107. 1 Claim. (Cl. 88—17.)



A device of the class described, including a supporting plate, a bracket connected thereto, a rod mounted for rotation upon the bracket, a shutter plate carried by the rod, a crank upon one end of the rod, an operating rod having one end connected to the crank, an actuating plate pivotally connected at its central portion to the operating rod above the shutter plate, a housing for said actuating plate, said actuating plate being pivoted at one end to the housing, a roller suspended at the outer end of said plate and normally supported by a film whereby to retain the shutter in an open position and said roller and said actuating plate being adapted to drop downwardly upon a break in the film to actuate the shutter, as and for the purpose set forth.

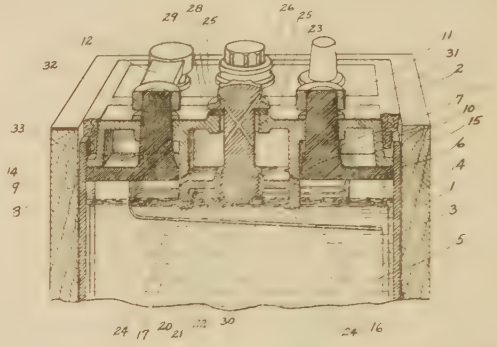
1,419,207. CURTAIN ROD. AMANDA BECKMAN, Los Angeles, Calif. Filed May 2, 1921. Serial No. 465,971. 2 Claims. (Cl. 156—19.)



1. The combination with a curtain including a rod receiving pocket, of a curtain rod having its end portions extended in angular relation to said rod, and substantially in spaced parallel relation to each other, said extensions being each of such proportions with respect to the capacity of said pocket as to enable said extension to enter and separate the walls of the pocket to permit unobstructed movement of the curtain on the rod.

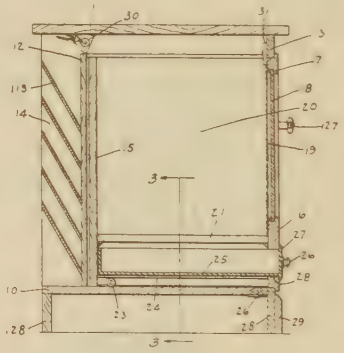
1,419,208. BATTERY COVER. EARLE A. BERRY, Kansas City, Mo. Filed Apr. 21, 1922. Serial No. 555,889. 5 Claims. (Cl. 204—29.)

4. A storage battery cell cover comprising an inverted, trough-shaped member having depending, transverse partitions extending from the top of the trough-shaped member to a point below the same, a horizontal wall connecting the transverse partitions below the trough-shaped member and having a collar therein, the opening of which aligns with an opening in the top of the trough-shaped member, and a plug adapted to extend through the opening in the trough-shaped member and engage the collar



to rigidly connect it thereto so that the plug will close the opening in the trough shaped member, the plug having diagonal escape ports communicating with the trough-shaped member and with atmosphere and the partitions having openings to communicate with the storage battery cell and with the spaces between the transverse partitions.

1,419,209. VEGETABLE AND FRUIT COUNTER. ELSWORTH E. BOONE, Anderson, Ind., assignor of one-half to Daniel Davis Neal, Anderson, Ind. Filed Feb. 14, 1921. Serial No. 444,831. 1 Claim. (Cl. 211—11.)

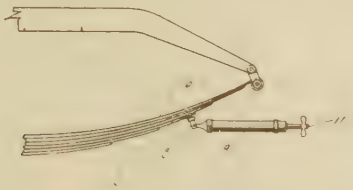


A display and vending cabinet including a cabinet base, an apertured compartment drawer slidably supported therein and comprising two chambers in communication with each other, container means in the lower and smaller of said chambers removably supported by the drawer, the upper chamber being adapted to receive the contents to be vended, and the lower chamber adapted to receive the refuse from the upper chamber, means separating said chambers and adapted to support the contents to be vended and yet permit the dirt therein to be received by the container, transparent means in the aperture of said contents receiving chamber for preventing access to the contents of the drawer yet permitting the same to be visible from without the drawer, and means adjacent the transparent means and within the chamber to protect the same from injury within.

1,419,210. LUBRICATOR. CHARLES B. BRADFORD, Bakersfield, Calif., assignor to Critz Manufacturing Company, Santa Maria, Calif., a Corporation of California. Filed Apr. 24, 1920. Serial No. 376,204. 1 Claim. (Cl. 81—3.)

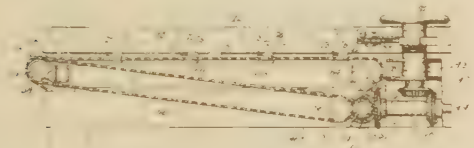
In a lubricator, a wedge-shaped body having a duct opening laterally nearer the thinner end of the body to the

surface thereof, the thicker end of the body forming a head by which the wedge may be driven, and a nipple



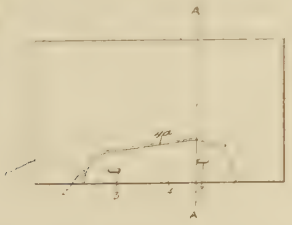
inserted in one of the flat faces of the wedge and communicating with the duct, said nipple being adapted for communication with lubricant-supplying means.

1,419,211. SIDE-SEAM-SOLDERING MACHINE FOR CAN BODIES. JULIUS BRENZINGER, Fairfield, Conn., assignor to The Max Ams Machine Company, New York, N. Y., a Corporation of New York. Filed Oct. 6, 1919. Serial No. 328,678. 18 Claims. (Cl. 113—60.)



1. In a machine of the character described, the combination, with a guiding and supporting track for work which surrounds the same and means for advancing said work along said track, of a plurality of supports carried by said advancing means and traveling therewith for sustaining said track.

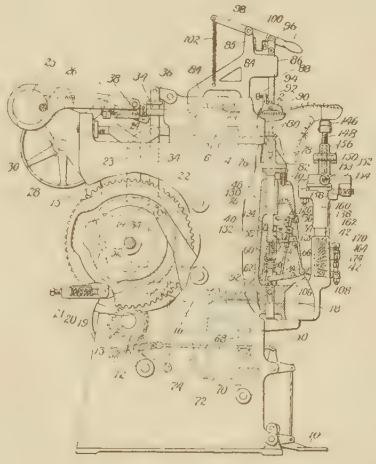
1,419,212. SANITARY TOILET-SEAT COVER AND PAD OF TOILET PAPER. MARY GREEN BREWER and JOSEPH HARRIS BREWER, Poydras, La. Filed Apr. 14, 1921. Serial No. 461,265. 10 Claims. (Cl. 206—37.)



10. As an article of manufacture, a toilet seat cover or shield constructed of any pliable material, provided with perforations in a row corresponding with and conforming to a toilet seat opening, said cover or shield being folded upon itself on a line intersecting the row of perforations to form a plurality of plies, said cover or shield adapted to be torn along the line of said perforations while the shield or cover is in a folded state.

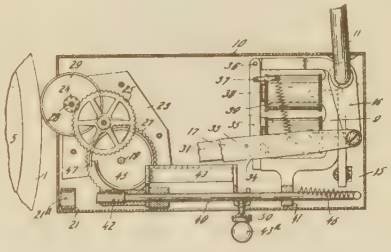
1,419,213. WORK-POSITIONING MECHANISM FOR UPPER-FORMING AND OTHER MACHINES. MATTHIAS BROCK, deceased, late of Boston, Mass., by Edward L. Brock, administrator, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 27, 1919. Serial No. 273,453. 46 Claims. (Cl. 12—97.)

1. In a machine of the class described, the combination with mechanism for operating upon a shoe, of last and shoe supporting means movable from a work-receiving position to a position to present a shoe for the operation of said mechanism and constructed and arranged for preparatory movement with the last and shoe to a position in which the shoe is in a plane to co-operate with said mech-



anism, and means acting automatically in said preparatory movement to lock and hold said supporting means against return movement with its shoe from said cooperative plane prior to the positioning of the shoe for the operation of said mechanism on the shoe.

1,419,214. PHONOGRAPH BRAKE. ROBERT G. BROWN, George School, Pa., assignor to John E. Streitelmeier, Cincinnati, Ohio. Original application filed Jan. 18, 1915, Serial No. 2,834. Divided and this application filed Sept. 15, 1916, Serial No. 120,305. Renewed Nov. 26, 1920. Serial No. 426,604. 9 Claims. (Cl. 274—15.)

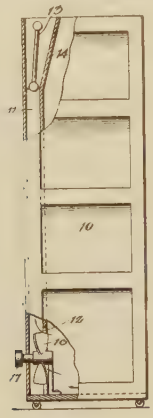


1. A phonograph brake-device combining a turn-table and a stylus; a mechanism operating under the power of said turn-table for repeatedly lifting said stylus; a brake; and an adjustment operated by said mechanism for causing said brake to function after said stylus has been uplifted for the predetermined number of times.

1,419,215. REFRIGERATING APPARATUS. HERBERT CRAWFORD BUCHERE, Charleston, S. C. Filed Mar. 2, 1921. Serial No. 448,982. 3 Claims. (Cl. 62—116.)

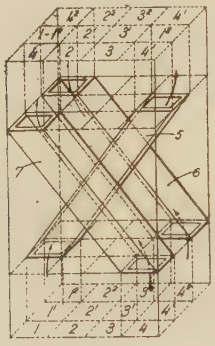
3. A refrigerator box capable of utilizing refrigerating apparatus including a condenser, said box having a vertical conduit having an upper discharge end and a lower intake end the latter end opening into the lower portion of the box, said conduit tapering laterally of the box from its said discharge end to its said intake end, means for causing a current of air to pass from the box upwardly through

the conduit, said conduit having its upper portion gradually widening adjacent to its discharge end in a direction



at right angles to its taper, and a condenser disposed and inclined within the upper widened end of the conduit as described.

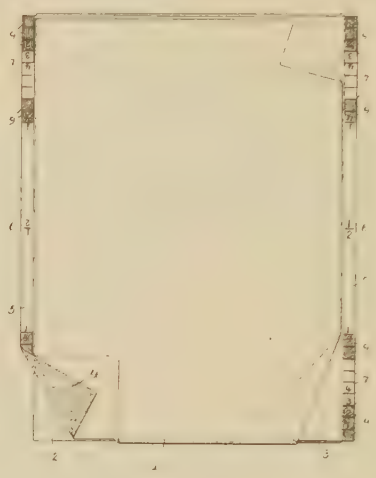
1,419,216. DEVICE FOR EFFECTING THE MIXING OF GASEOUS STRATA. RODOLPHE WILLIAM BURCKHARDT, Mulhouse, France. Filed Aug. 10, 1920. Serial No. 402,732. 2 Claims. (Cl. 48—180.)



1. A mixing device for gases flowing or circulating in strata or columns parallel to each other, the combination of a flue, or the like, conducting said gases, and a series of substantially hollow obstructions extending obliquely across said flue, whereby the gases passing along one side of the flue are caused to pass into and cross over through said hollow obstructions and be conducted to the opposite side of said flue in a direction transversely to the general flow, resulting in a complete intermingling and mixing of said gases.

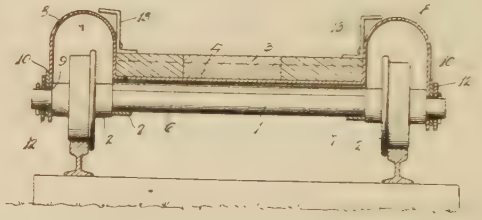
1,419,217. CARBON PAPER. ELIZABETH L. BURNETT, Boston, Mass. Filed Aug. 4, 1920. Serial No. 401,140. 1 Claim. (Cl. 282—28.)

A sheet of carbon paper having two lateral marginal spaces projecting beyond the paper with which it is to be used, the back of the carbon paper bearing in said marginal spaces certain lines and numerals, each margin bearing "½" at its midheight, "¼" at one-fourth of the distance from the foot of the sheet, this latter space having lines



corresponding with the normal lines of the typewriting machine and numbered from the bottom of the sheet.

1,419,218. MINE-CAR TRUCK. JOHN M. CAMERON, Dorchester, Va. Filed May 27, 1921. Serial No. 473,134. 9 Claims. (Cl. 295—42.)

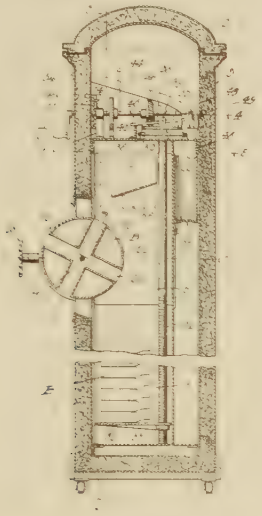


1. In a mine car truck, the combination of an axle, wheels mounted thereon, and a hanger plate disposed between the wheels over the axle and provided at its ends with resilient portions engaging the ends of the axle at the outer sides of the wheels.

1,419,219. BOTTLED-DRINK-VENDING MACHINE. JAMES H. CARROLL, Charlotte, N. C. Filed Mar. 29, 1921, Serial No. 456,594. Renewed May 4, 1922. Serial No. 558,428. 14 Claims. (Cl. 211—8.)

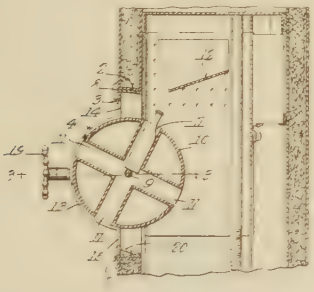
1. In a bottled drink vending machine, the combination of a vertical supply compartment for full bottles, an adjacent receiving compartment for empty bottles and a bottle delivery drum operable by the customer for delivering the bottles into position to be uncapped and for the discharge of their contents into a cup and thereafter for discharging empty bottles into the receiving compartment, manually operated means in operative connection with the

means for discharging bottles from the supply compartment into the delivery drum, and coin operated locking and



releasing mechanism adapted to release the manually operated means above described on the deposit of one coin.

1,419,220. BOTTLED-DRINK-VENDING MACHINE. JAMES H. CARROLL, Charlotte, N. C. Filed Apr. 11, 1921, Serial No. 460,479. Renewed May 4, 1922. Serial No. 558,429. 3 Claims. (Cl. 211—8.)

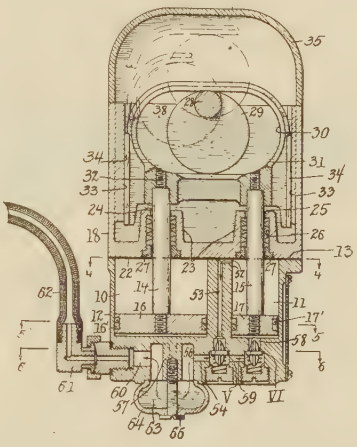


1. A device for delivering bottles in upright position from a bottled drink vending machine, comprising a drum having a plurality of openings to receive bottles, a housing for the drum, said housing having a slot sufficiently narrow to prevent the bottle from dropping out of the drum when rotated to point the neck of the bottle downward.

1,419,221. COMPRESSION PUMP. FRED S. CARVER, Newark, N. J. Filed June 18, 1918. Serial No. 240,629. 20 Claims. (Cl. 230—6.)

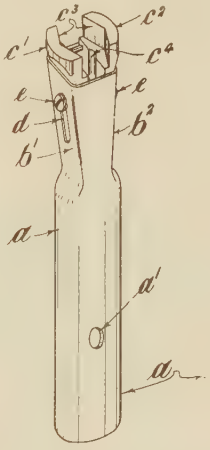
1. A compound double acting compression pump comprising a combination of high and low pressure cylinders, arranged side by side in a single casting, with separate axes parallel to one another, and double acting pistons therein with but six check valves for controlling the passage of fluid.

6. In a compression pump, the combination of a plurality of cylinders arranged side by side and comprising a low pressure and a high pressure cylinder, pistons in said cylinders and piston rods projecting therefrom, packing means for said piston rods, said piston rods and packing means being mounted to substantially float in their bearings, a chamber above said cylinders adapted to contain an oil bath, a Scotch yoke in said chamber, a rotating cam adapted to impart reciprocatory movement to said Scotch yoke and pistons, said Scotch yoke having side shoulder members extending low down thereon and substantially closely adjacent to the cylinders, and guide-ways for said shoulders formed in the walls of said chamber.



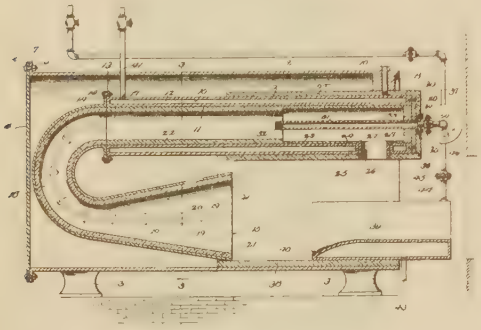
18. In a pump, a cylinder, an oil chamber thereover, a piston in the cylinder and having a piston rod extending into the body of the oil in said chamber whereby oil is carried into the cylinder by the piston rod for lubricating the same, and means for separating the oil from compressed air discharged from said cylinder.

1,419,222. BOX SPANNER AND THE LIKE. IRVINE CHADDERTON, Ashton-under-Lyne, and RONALD CRIGHTON BOOTH, Failsworth, England. Filed June 22, 1921. Serial No. 479,609. 3 Claims. (Cl. 81—112.)



1. A box spanner comprising a tube having a part near one end of less diameter than the other parts and that part of the tube between the portion of small diameter and the near end of the tube being rectangular in cross section and two opposite sides of such part being inclined and having slots, a pair of half-wedge shaped metal blocks within said tube and each lying against one of the inclined faces of the tube, screws passing through the slots and engaging the blocks, and spring washers for yieldingly and adjustably holding the blocks in various positions along the inclined sides of the tube, said blocks being recessed at one end to receive and engage a nut or bolt head or the like, substantially as herein set forth.

1,419,223. APPARATUS FOR BURNING HYDROCARBON OILS. CHARLES E. CHAPMAN, Fort Edward, N. Y., assignor of one-half to Joseph Goodfellow, Fort Edward, N. Y. Filed Nov. 30, 1920. Serial No. 427,336. 7 Claims. (Cl. 158—5.)



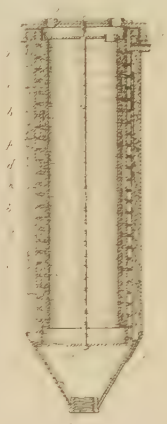
5. The herein described apparatus for burning fuel oils, comprising a jacketed retort chamber provided with a discharge horn having a bell mouth, a hollow arcuate superheater located approximate the bell mouth and receiving the discharge therefrom, an oil supply including nebulizing means discharging into the retort chamber, and means connecting the oil supply with the steam supply from the superheater.

1,419,224. CIGARETTE ROLLER. FRANK CLIFFORD, Milwaukee, Wis. Filed May 18, 1920. Serial No. 382,294. 1 Claim. (Cl. 131—5.)

The combination with a combined hollow former and filler comprising a cylindrical tube having a receiver at one end and a slot in its side, of an agitator comprising a sinuously curved flexible agitator extending longitudinally inside the tube and having a stem extending through said slot whereby the agitator may be reciprocated.

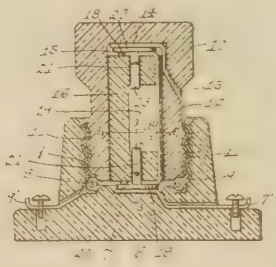
1,419,225. WATER HEATER. WILLIAM COLEBROOK, Durban, Natal, South Africa. Filed Sept. 20, 1920. Serial No. 411,592. 3 Claims. (Cl. 219—39.)

1. A water heater including a pair of tubular members arranged to provide a space therebetween, a member arranged in said space between the tubular members to provide a spiral water passageway therebetween, heat insulating means surrounding the outer tubular member, electrical heating means embedded in the insulation, a cap for



one end of the tubular members, an inlet spout carried by the opposite end of the tubular members and arranged in communication with the outer end of the spiral passageway provided therebetween, and an exterior casing arranged between the said cap and the inlet spout.

1,419,226. CARTRIDGE FUSE. THOMAS COLSON, Chicago, Ill., assignor to Charles Dawson, Belvidere, Ill. Filed Dec. 2, 1918, Serial No. 264,996. Renewed Apr. 3, 1922. Serial No. 549,252. 4 Claims. (Cl. 200—128.)

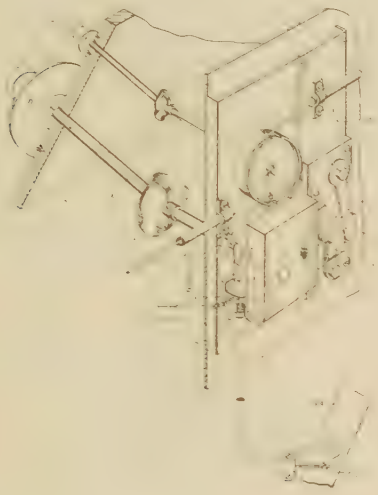


1. A cartridge fuse comprising a body; discs spaced from the ends of said body; stems extending toward each other and movably associated with the body; retaining means at the adjacent end portions of the stems for engaging the body to limit movements of the discs away from the body; and a fuse wire having its ends extending between the ends of the body and said discs.

1,419,227. AUTOMOBILE LOCK. THOMAS JOHN COO, Toronto, Ontario, Canada. Filed Mar. 15, 1920. Serial No. 365,717. 6 Claims. (Cl. 180—82.)

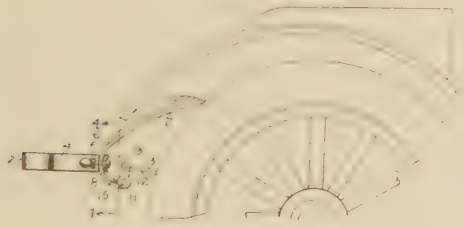
1. An automobile lock, comprising, a plurality of locking members arranged within the engine enclosure, flexible wire controls connected with each of said locking members, a manually operable rotatable member con-

nected to the inner ends of said flexible wire controls and adapted upon being rotated to pull upon said wires



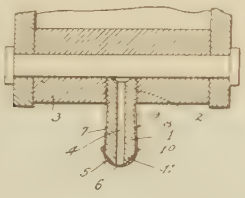
and unlock said locking members, and a combination lock adapted to lock said manually operable member.

1,419,228. BUMPER ATTACHMENT FOR VEHICLE SUSPENSION SPRINGS. WILLIAM G. COX, Cleveland, Ohio, assignor to Cox Brass Manufacturing Company, Albany, N. Y., a Corporation of New York. Filed Nov. 19, 1921. Serial No. 516,319. 6 Claims. (Cl. 293—55.)



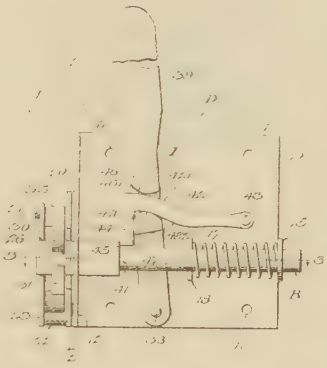
1. A buffer or bumper having a supporting member adapted to be attached to the suspension springs of an automobile, and anchoring devices seated in rest position within the springs against the shackle portions thereof and connected to said supporting member.

1,419,229. DUSTPROOF LUBRICATION DEVICE. EDWARD COE CRITCHLOW, Orcutt, Calif. Filed Jan. 17, 1921. Serial No. 437,706. 3 Claims. (Cl. 184—91.)



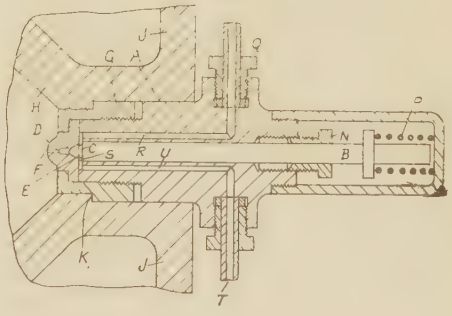
1. An article of manufacture comprising a cap having a head, and an integral straight barrel split longitudinally to form inherently contractile spring blades, the blade portion of the barrel being gradually reduced in diameter from the base of the blades to the outer ends thereof so as to yieldingly clasp the periphery of the tubular nipple when the cap is in position thereon.

1,419,230. LATCH. EDWIN CROMPTON and CHARLES L. CROOKS, Pueblo, Colo. Filed May 8, 1920. Serial No. 379,896. 8 Claims. (Cl. 292—173.)



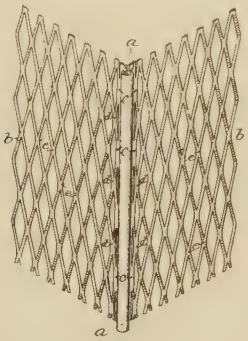
1. In a latch, the combination with a bolt, of means for dogging said bolt in projected position and swingable means for positively operating said dogging means to release or dog the bolt and for operating said bolt.

1,419,231. OIL-FUEL-INJECTION DEVICE FOR INTERNAL-COMBUSTION ENGINES. KENNETH IRWIN CROSSLEY and WILFRED LE PLASTRIER WEBB, Manchester, England. Filed June 12, 1918. Serial No. 239,670. 2 Claims. (Cl. 123—32.)



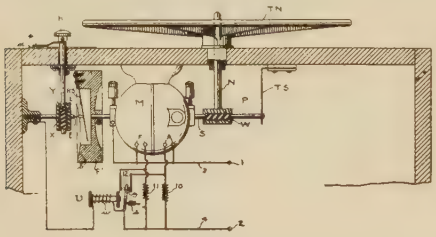
1. In an internal combustion engine, the combination with a combustion chamber, of a single injector sprayer for injecting an ignition oil and a power oil, said sprayer having a separate inlet conduit for each of said oils and a single outlet port, a valve for closing said port and adapted, when seated, to form a chamber in communication with both of said conduits, the area of said chamber being such and the admission of said oils being in such sequence with relation to the opening and closing of the outlet port that said chamber will contain only ignition oil immediately prior to the opening of the port and the oils will become atomized only after their passage from said chamber.

1,419,232. PLASTER TERMINAL. LEWIS E. CURTIS, Warren, Ohio, assignor to Milwaukee Corrugating Company, Greenfield, Wis., a Corporation of Wisconsin. Filed Oct. 31, 1921. Serial No. 511,883. 3 Claims. (Cl. 72—121.)



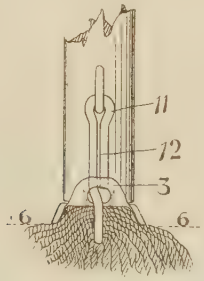
3. A plaster terminal formed of sheet metal with a continuous unexpanded bead serving as a gage for a plaster coating, and with a slitted and expanded attachment wing of diamond-shaped mesh having longer bonds adjacent the bead.

1,419,233. ELECTRIC GOVERNING SYSTEM. WILLIAM W. DEAN, Wilmette, Ill., assignor to Efficiency Electric Corporation, New York, N. Y., a Corporation of New York. Filed May 16, 1919. Serial No. 297,621. 7 Claims. (Cl. 171—222.)



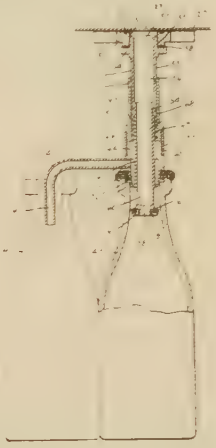
3. In combination, an electric motor, field and armature windings for the said motor, said windings being of relatively low impedance, an energizing circuit, said windings being bridged across said circuit, a switch controlling the flow of current from the said circuit to each of the said windings, and means responsive to the motor speed for operating the said switch.

1,419,234. MOP. JOHN C. DE ROO, Cincinnati, Ohio. Filed Aug. 28, 1919. Serial No. 320,377. 4 Claims. (Cl. 15—229.)



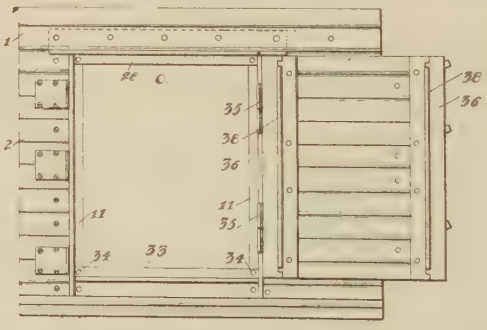
1. In a mop, a handle having a transverse opening near its lower end, a ferrule having holding means formed thereon and adapted to engage said handle, mop material, a bail adapted to receive and hold said mop material, engaging means between said ferrule and said bail, said bail having a loop formed upon each end thereof and adapted to register with the transverse opening in said handle, and a holding wire adapted to pass through said loops and opening, respectively, and be bent into embedded engagement with said handle.

1,419,235. BOTTLE-FILLING MACHINE. CHARLES W. DESOBRY, Indianapolis, Ind. Filed Dec. 13, 1920. Serial No. 430,240. 4 Claims. (Cl. 226—119.)



1. A bottle filling device including in combination a filling tube communicating with a liquid reservoir, a second tube telescopically arranged upon said first mentioned tube to provide an air chamber, one of said tubes having a laterally discharging aperture therein, and a closed end adjacent thereto, both of said tubes being arranged to provide a longitudinal chamber therebetween, a coil spring concentric with said tube and positioned in said second mentioned chamber, whereby said tubes will be slidable longitudinally of each other to control said aperture, pin and slot means associated with both tubes for preventing relative rotation of said tubes, and vent means communicating with said first mentioned chamber and adjustably associated with said second mentioned tube.

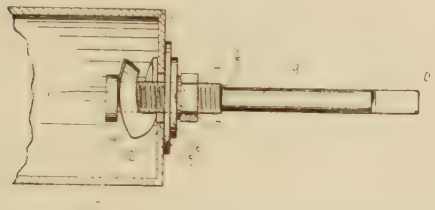
1,419,236. DOOR AND DOOR FRAME FOR GRAIN BINS. LIZZIE HETZEL DICKELMAN, Forest, Ohio. Filed Jan. 12, 1920. Serial No. 350,777. 6 Claims. (Cl. 189—46.)



1. A storage bin including plates arranged to leave an opening, a door frame comprising jamb plates secured behind the vertical opening edges, with jamb ribs in the opening, and inwardly extending flanges; a sill plate at the bottom, with a water shedding rib in line with the

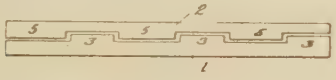
jamb ribs; a lintel structure including a horizontal top plate with end flanges secured to the jamb plates and cut out front corners leaving a front lip, a vertical plate secured between plates of the bin, and having a horizontal rib receiving the front lip, projecting farther than and extending beyond the jamb rib forming an ample water shed, and having cut away corners leaving an inwardly extending jamb flange, all of said cut away corners leaving a space to receive adjacent bin plates; and a door hinged to close against said flanges within the confines of all ribs, including means for fastening it in the closed position.

1,419,237. FAUCET. WILLIAM DIETZ, Forest Park, Ill. Filed Jan. 28, 1921. Serial No. 440,607. 5 Claims. (Cl. 221—23.)



1. A faucet mountable on a container, comprising a tubular member carrying a flange at one end and a spring washer movably mounted adjacent thereto, said flange and washer being insertable through a wall of said container, said washer by a rotational movement; and means on said tubular member exterior of said wall co-operating with said movable washer and flange to retain said faucet in fluid-tight position on said wall.

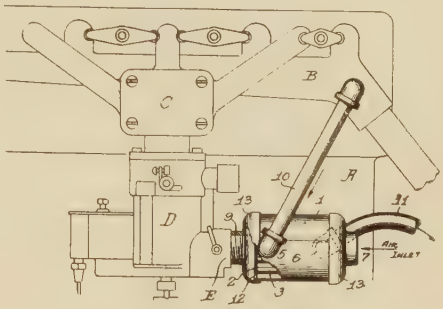
1,419,238. SOUND BOX FOR TALKING MACHINES. JAMES C. DRAKE, Rochester, Minn., assignor to Sears, Roebuck and Company, New York, N. Y., a Corporation of New York. Filed Apr. 9, 1920. Serial No. 372,470. 2 Claims. (Cl. 274—25.)



1. In a sound box, a front and a back, each carrying a groove to receive a rubber gasket, said gaskets, a diaphragm, a stylus lever and means for securing the parts together, both front and back being provided with projecting segments or lugs adapted to alternate and intermesh in assembly, and to surround and hold the gaskets in position during the act of assembling.

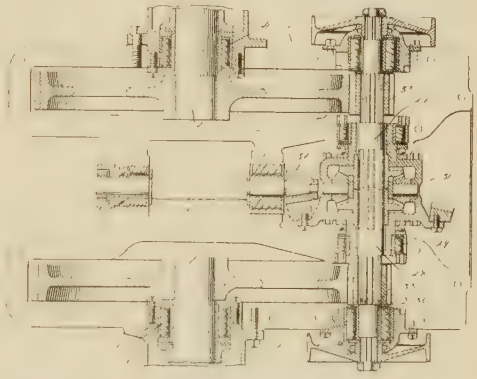
1,419,239. AIR HEATER AND MOISTURE SUPPLY FOR CARBURETORS. STANLEY R. DU BRIE, Detroit, Mich. Filed Feb. 24, 1921. Serial No. 447,538. 5 Claims. (Cl. 123—25.)

5. A device of the character described comprising a casing having an inlet and an outlet and a header at each end of said casing forming end chambers, tubular members in the casing secured at their ends to said headers and connecting said end chambers, means connected to one of said chambers for conducting air passing through the tubular members, to an engine, means for conducting exhaust gases from an engine to the inlet of said casing to pass therethrough around said tubular members to be cooled thereby for condensing moisture contained in the gases within the casing, one of said headers being provided with an opening to provide communication between the interior of the casing through which said tubular



members extend, and an end chamber and permit the condensation to pass into the air flowing to the engine for admixture therewith.

1,419,240. TRACTOR GEARING. GEORGE W. DUNHAM, New York, N. Y., assignor to Graham Brothers, Evansville, Ind., a Corporation of Indiana. Filed Jan. 30, 1920. Serial No. 355,156. 2 Claims. (Cl. 74—99.)

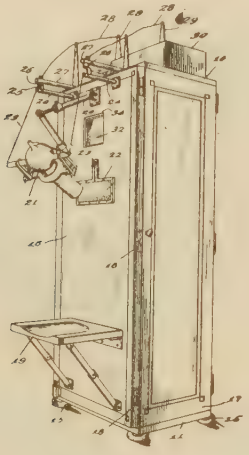


2. The combination with a transmission housing, of substantially aligned drive shafts journalled in said housing and having their inner ends extending inwardly beyond the journals and spaced from each other, jack shafts located forward of said drive shafts, gear wheels upon the inner ends of said drive shafts, pinions upon said jack shafts engaging said gear wheels, differential gearing upon the adjacent ends of said jack shafts, a main drive shaft adapted for connection with an engine and extending over said differential gearing and having its rear portion extending between the inner ends of said drive shafts, a counter-shaft in substantial parallelism with said main drive shaft, means for driving said counter shaft from said main drive shaft, and a pinion upon the forward end of said counter-shaft and in driving engagement with said differential gearing.

1,419,241. X-RAY CABINET. EDWIN L. EDWARDS, Indianapolis, Ind., assignor to Edwards X-Ray Corporation, Indianapolis, Ind., a Corporation of Indiana. Filed Jan. 24, 1919. Serial No. 272,823. 18 Claims. (Cl. 250—54.)

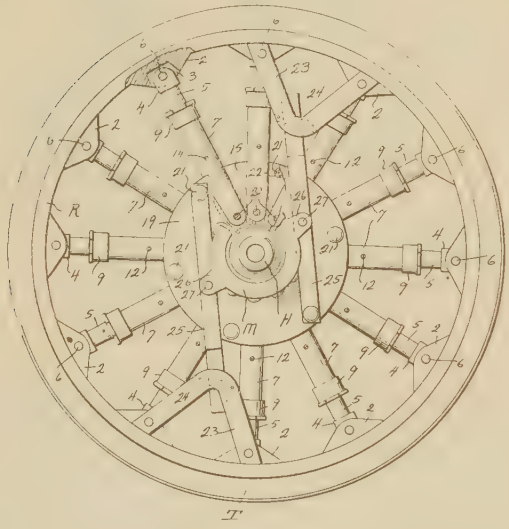
1. An X-ray cabinet, comprising a cabinet with a swinging member, an X-ray tube mounted on said swinging

member for all positions of the latter so that by the swinging of said member said tube may be swung into



or out of said cabinet, and controlling devices for said tube mounted within said cabinet.

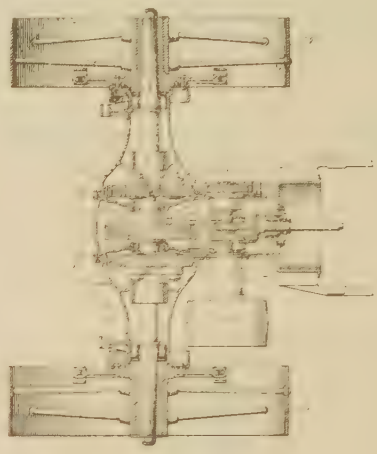
1,419,242. RESILIENT WHEEL. WILLIAM ERDWINS and JOHN C. ERDWINS, Harrisonville, Mo. Filed Jan. 21, 1922. Serial No. 530,858. 5 Claims. (Cl. 152—47.)



3. A wheel structure comprising, in combination, a hub, a rim, cushioning means interposed between the hub and rim, oppositely directed arms secured to the hub at substantially diametrically opposed points, a member interposed between the intermediate portions of the arms and pivotally connected therewith, and means whereby said arms are movably engaged with the rim, said member having an intermediate portion surrounding the hub, said hub and surrounding portion of the member having relative movement with respect to the axis of the hub.

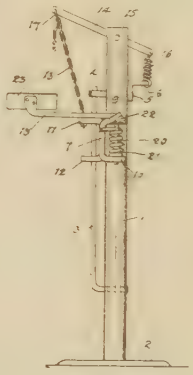
1,419,243. VARIABLE-SPEED DRIVING MECHANISM FOR TRACTORS. JOHN B. FOOTE, Oak Park, Ill. Filed Oct. 4, 1919. Serial No. 328,487. 15 Claims. (Cl. 74—58.)

13. In variable speed transmission gearing for tractors, the combination of a case, a cross-shaft, means to drive said shaft from a motor, a countershaft, high and low speed pinions on the countershaft, gears driven by said



pinions, a reverse pinion on the cross-shaft, adapted to mesh with one of said pinion-driven gears, and gears between said shafts.

1,419,244. BAG HOLDER. ROWLAND FORSTER, Dauphin, Manitoba, Canada. Filed June 1, 1920. Serial No. 385,759. 2 Claims. (Cl. 83—26.)

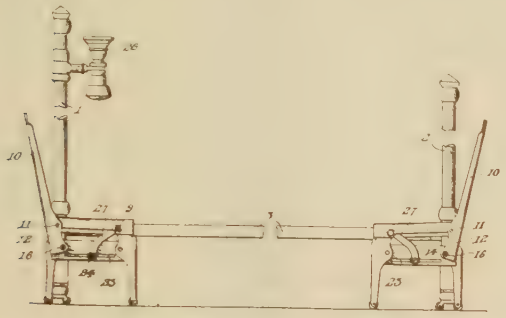


2. A bag holder, comprising a standard, a carriage adjustable thereon, means connected with said standard and carriage for preventing rotation of said carriage, bag holding means on said carriage, a pivoted lever on said standard, an adjustable connection between one end of said lever and said bag holding means, and spring means connected with the other end of said lever for holding said bag holding means in yielding position.

1,419,245. CHAIR ATTACHMENT FOR BEDS. JOHN A. FREEZE, Sayreville, N. J. Filed Nov. 23, 1921. Serial No. 517,237. 9 Claims. (Cl. 5—41.)

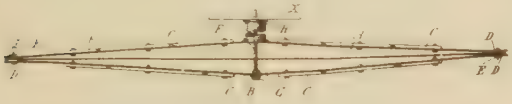
1. A chair attachment for beds comprising in combination with the corner post of a bed, a block rotatably supported on the corner post, a chair detachably connected to said block, said chair comprising a seat bottom, a back hinged to said bottom, legs associated with the chair and connections between the chair legs and seat back to cause

the legs to move in a direction toward the seat bottom when the back is lowered, said connections including a



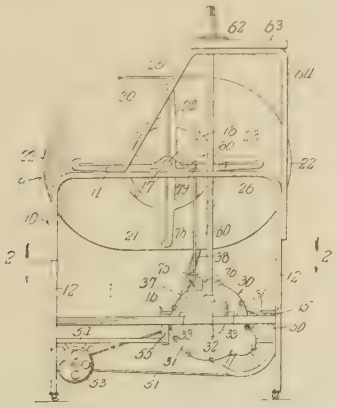
sub-frame pivoted to the front legs of the chair intermediate the ends thereof and downward extensions carried by the chair back hinged to the rear edge of the sub-frame.

1,419,246. THERMOSTAT. JAMES EDWIN GEE, London, England. Filed June 1, 1920. Serial No. 385,505. 4 Claims. (Cl. 297—12.)



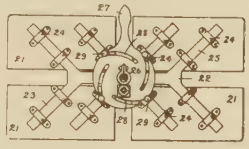
1. A thermostat of the type described comprising in combination a straight member constituted by at least one thin flexible sheet of metal, and at least one arched member constituted by a springy or resilient length of metal which is stiffened on both sides of its central portion so as to leave that central portion and both ends flexible and resilient, thus constituting a spring-element, the said arched spring-element being connected in compression to the straight member so that it is adapted to exert a tension along the straight member in the direction of its length even when the latter is expanded under the action of heat and thus to tend to draw the straight member substantially taut notwithstanding its expansion and contraction by reason of changes of temperature, substantially as described.

1,419,247. GEARING. WILLIAM H. GEORGE, Fairfield, Iowa, assignor to The Dexter Company, Fairfield, Iowa, a Corporation of Iowa. Filed Feb. 5, 1920. Serial No. 356,558. 4 Claims. (Cl. 74—50.)



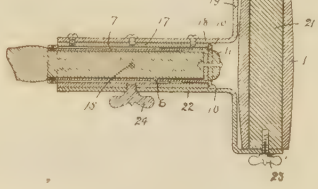
1. The combination of a support, a member mounted on the support to rock about a horizontal axis, a two-part gear casing mounted on the support beneath the rocking member, a horizontal driven shaft journalled at one end in the casing and at its other end upon said support, a clutch member fixed in said shaft within the casing, a clutch pinion loose on said shaft near said clutch member, a drive shaft journalled in said casing, a pinion on the drive shaft within said casing, an intermediate shaft mounted at its ends in both casing parts, speed reducing gearing on said intermediate shaft and connecting the pinion on the drive shaft with the clutch pinion on the driven shaft, a shifting member engaged with said clutch pinion and projecting through the top of said casing, an upright rod, journalled on said casing and on said support for actuating the clutch shifting member, and means connecting the driven shaft with said member on the support, and imparting a rocking movement thereto.

1,419,248. APPARATUS FOR MAKING RECEPTACLES. MORRIS GERSON, Duluth, Minn. Original application filed Jan. 31, 1920, Serial No. 355,434. Divided and this application filed Jan. 27, 1921. Serial No. 440,387. 2 Claims. (Cl. 18—45.)



1. The combination with an adjustable, receptacle forming block, comprising a plurality of simultaneously movable parts, of recesses within the outermost walls of the parts for the reception of reinforcing bands or rings whereby they may be incorporated within the receptacle formed upon the block.

1,419,249. CONVERTIBLE HAND AX. BARNEY GIDMARK, Cloquet, Minn. Filed Oct. 25, 1920. Serial No. 419,334. 2 Claims. (Cl. 306—32.)

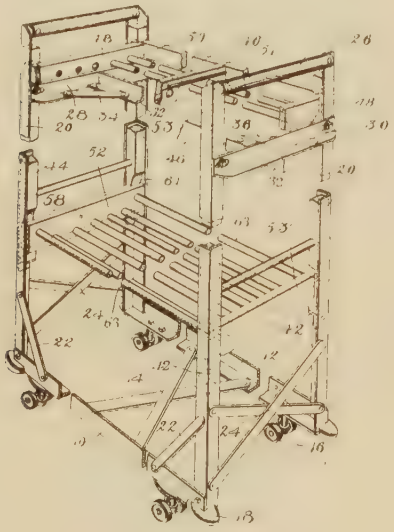


1. A fastening means for hatchets of the class described comprising an inner ferrule, an outer ferrule surrounding the inner ferrule, means carried by the former for securely holding the outer ferrule thereto, brackets extending forwardly of the outer ferrule and carried thereby and a hatchet head holder carried by the brackets, substantially as described.

1,419,250. SHOE RACK AND METHOD OF MAKING IT. HARVEY L. GLIDDEN, Needham, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 15, 1916. Serial No. 137,157. 10 Claims. (Cl. 211—14.)

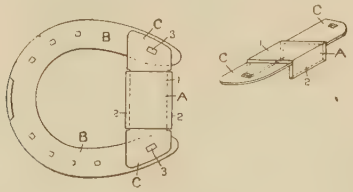
1. In a shoe rack, a metallic frame comprising a base and upstanding end portions and metallic bracing for said parts including a combined strut and tie member rigidly connecting said end portions near their upper ends whereby said frame is rendered completely rigid and self supporting and a wooden filler mounted in the frame, said frame comprising frame members one or more of which is positioned directly in the path of movement of the

filler from normal position in any direction to obstruct such movement irrespective of bonding between the frame and the filler.



10. That improvement in the art of making racks which consists in providing a shelf structure having interconnected wooden corner verticals, providing a completely self-supporting shelf enclosing metal frame having rigid upstanding metal corner verticals presenting inwardly facing channels, inserting the shelf structure within the metal frame with its wooden verticals supported and nesting in the channels of the metal corner verticals of the metal frame and confining the wooden verticals in said channels without bonding the shelf structure to the metal frame.

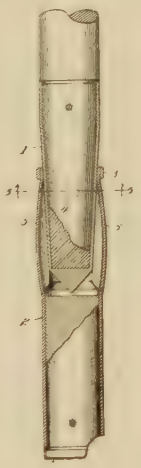
1,419,251. ANTISLIP DEVICE FOR HORSESHOES. BERTRAM PARROTT GRAY, Sutton Coldfield, England. Filed Jan. 24, 1920. Serial No. 353,782. 3 Claims. (Cl. 168—26.)



1. A device of the class described, comprising a member having a web portion and a pair of rigid flanges projecting at right angles thereto, and means for securing said member to a horseshoe, whereby the web portion is in position to abut against the frog of a horse's hoof and the flanges extend transversely of the shoe between the sides thereof for engaging the road with their longitudinal edges.

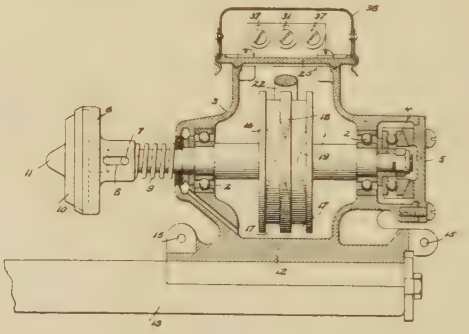
1,419,252. MAST COUPLING. GEORGE F. GRAY, Mahwah, N. J. Filed Sept. 16, 1919. Serial No. 324,127. 3 Claims. (Cl. 189—20.)

1. A joint for mast sections comprising a metal male member having a socket portion to receive a mast section and also having an externally tapered jointing face, and a metal female member having a socket portion to receive another mast section and also having an internally tapered jointing face to fit the jointing face of the male



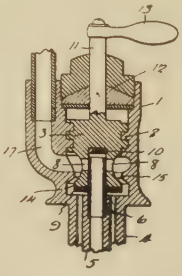
member, the socket member being formed with reinforcing ribs extending longitudinally thereof and bowed outwardly between their ends.

1,419,253. MAGNETIC REVOLUTION COUNTER. NEIL GRAY, Dayton, Ohio. Filed Oct. 8, 1920. Serial No. 415,528. 4 Claims. (Cl. 235—103.)



1. A magnetic revolution counter embodying an indicating member, an escapement mechanism to operate said member, an electric circuit, a polarity-reversing switch in said circuit, and a polarized relay between said switch and escapement mechanism, said switch comprising a rotary shaft, an oscillatory switch arm, a cam on said shaft to operate said arm, and circuit contacts in the path of said arm.

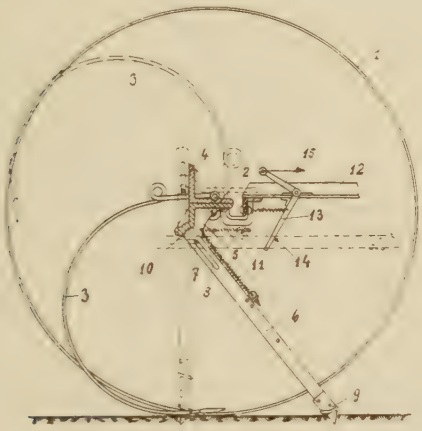
1,419,254. MIXING VALVE. JOHN J. GREBE, Cleveland, Ohio. Filed Oct. 22, 1921. Serial No. 509,620. 6 Claims. (Cl. 251—106.)



1. A mixing valve comprising a casing having concentric inlets at one end thereof, the central inlet having a

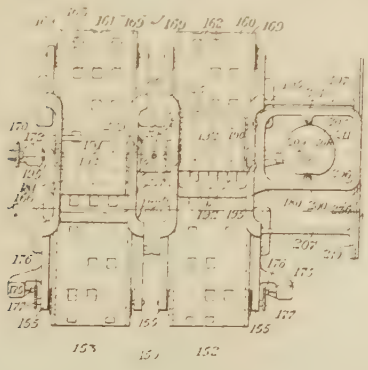
tubular extension, and a reciprocating plug in the casing, movable in line with the axis of said inlets, one end of the plug having a seating surface controlling the outer inlet and also having a recess into which said extension projects and ports communicating with said recess, said ports being located between said seating surface and the opposite end of the plug.

1,419,255. AGRICULTURAL RAKE. FRITZ HÄCKER, Spandau, Germany, assignor to Deutsche Werke Aktiengesellschaft, Berlin, Germany, a Corporation of Germany. Filed Feb. 18, 1922. Serial No. 537,535. 5 Claims. (Cl. 56—386.)



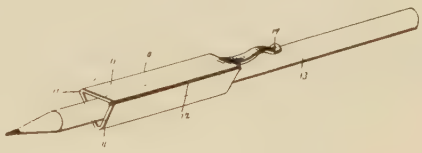
3. In a horse rake a tilting basket, a depending cupped arm connected with same, a slotted swinging and slidable strut carried by the arm, means for carrying the strut in horizontal position, means for pushing the strut forwardly and allowing same to engage in the ground, means for guiding the strut to an upright position behind the basket, means for pulling the strut out of the ground and close against the rear of the basket, means connected with the arm of the basket for starting the strut back to its initial horizontal position.

1,419,256. ELECTRIC-LIGHT DISPLAY SYSTEM. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Dec. 27, 1916, Serial No. 139,226. Renewed Oct. 1, 1921. Serial No. 504,732. 15 Claims. (Cl. 177—350.)



8. In an electrical system, a plurality of electrical devices, a plurality of groups of contacts, the number of contacts in each of said groups being the same as the number of said devices and the contacts of each group being electrically connected to said devices respectively, and contact selecting means arranged to be moved continuously to select from said groups of contacts successively a plurality of different combinations of contacts whereby said combinations of contacts are rendered successively effective to control the corresponding ones of said devices.

1,419,257. PEN AND PENCIL GRIP. THOMAS M. HARRIGAN, Woodstock, Vt. Filed Feb. 1, 1919. Serial No. 274,508. 1 Claim. (Cl. 120—103.)

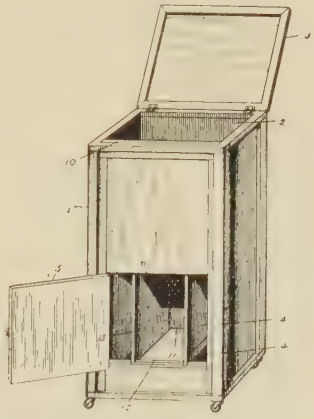


A device of the characer described consisting of a tubular shell triangular in cross section, the internal diameter of the shell being substantially uniform from end to end thereby enabling contact with the pencil periphery from end to end of the shell, the three sides being joined at two of the angles and unconnected throughout their length at the remaining angle.

1,419,258. COATING MATERIAL. OSCAR HOMMEL, Pittsburgh, Pa. Filed Apr. 21, 1919, Serial No. 291,560. Renewed Jan. 20, 1922. Serial No. 530,726. 2 Claims. (Cl. 134—79.)

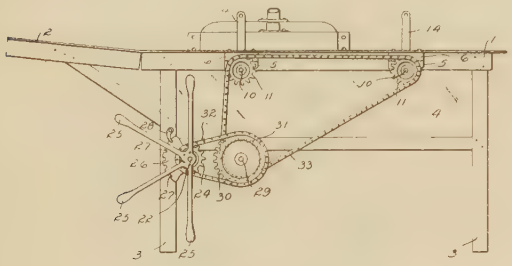
1. A quick drying material for coating golf balls adapted to be applied by dipping, consisting of soluble cotton, a solvent for the cotton, a pigment and a gum in substantially the proportions herein specified.

1,419,259. FUEL CABINET. GEORGE DAWSON HOOD, Toronto, Ontario, Canada. Filed Dec. 8, 1919. Serial No. 343,218. 1 Claim. (Cl. 126—283.)



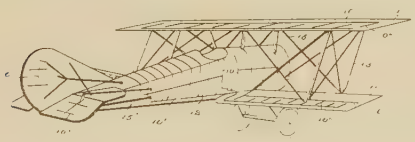
The combination in a fuel cabinet substantially rectangular in shape, having top and front openings, closures for said openings, vertical partitions dividing the floor space of cabinet into three compartments, a chute supported upon the top edges of said partitions and securely affixed to and supported from the walls of the cabinet in a manner to form an air tight joint, the delivery end of said chute terminating at rear of central compartment and thereby forming a fuel chamber in said compartment, and having compartments adjoining said fuel chamber and having air tight joints between said compartments and fuel chamber.

1,419,260. APPARATUS FOR REPAIRING AND TESTING RADIATORS. ALBERT HORN, St. Louis, Mo. Filed May 16, 1921. Serial No. 470,217. 4 Claims. (Cl. 73—51.)



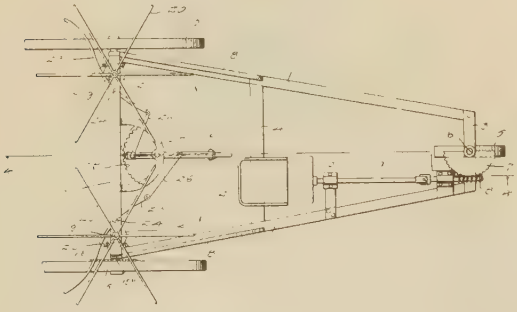
4. In a machine of the character described, a suitable frame, a tank supported by said frame, a plurality of shafts mounted on the frame near the top thereof, said shafts having supporting arms on their inner ends, a platform detachably supported by said arms, an actuating shaft, a pair of counter shafts, means for driving the counter shafts from the actuating shaft, means for driving the first mentioned shafts from the counter shafts, whereby the platform may be raised and lowered, and locking means for maintaining the platform in any predetermined position.

1,419,261. AIRCRAFT. DUDLEY BLANCHARD HOWARD, Washington, D. C. Filed Oct. 25, 1920. Serial No. 419,259. 4 Claims. (Cl. 244—1.)



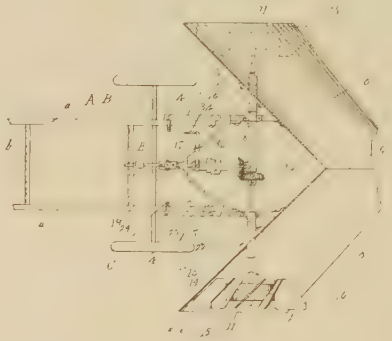
1. The method of discharging static electricity from the surfaces of aircraft of the all-metal type which consists in covering the said surfaces with a coating of insulating material and collecting the static charges from the exterior surface of the coating.

1,419,262. BROOM-CORN BREAKER AND TABLER. PAUL K. JENKINS, Maysville, Okla. Filed May 12, 1921. Serial No. 468,858. 3 Claims. (Cl. 56—52.)



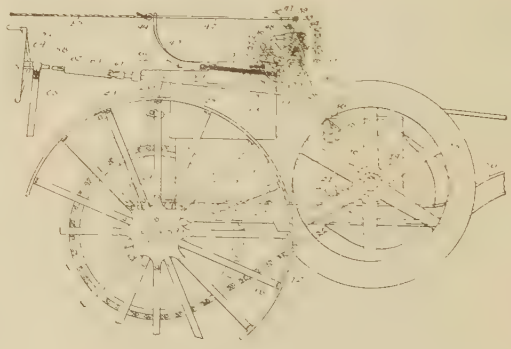
1. In a machine of the character specified, oppositely disposed breaker bars, an operating lever pivoted intermediate its ends, links connecting the breaker bars with the lever and connected to the lever upon opposite sides of its pivot and distant therefrom and reels in cooperative relation with the breaker bars.

1,419,263. SNOWPLOW. JOHN O. JOHNSON, White Bear Lake, Minn. Filed Apr. 1, 1921. Serial No. 457,690. 3 Claims. (Cl. 37—63.)



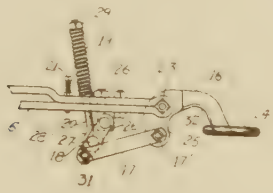
1. A snow plow adapted to be mounted on a wheeled frame having a driving shaft mounted thereon, comprising opposite forwardly converging mold boards, said mold boards curved whereby to form opposite circular discharge funnels opening laterally, a transverse shaft concentric with said circular funnels mounted on said mold boards, a rearwardly and outwardly pitched fan wheel in the discharge opening of each funnel, a frame secured to the back of the mold boards, a connecting shaft rotatably mounted on said frame and having universal connection with said driving shaft, gear connections between said connecting shaft and transverse shaft whereby to rotate said fan wheels in the direction of travel when said driven shaft is actuated, means on said frame for adjustably attaching it to said wheeled frame, said means including opposite pivot supports approximately in lateral alignment with said universal connection.

1,419,264. TRACTOR CONTROL. EDWARD A. JOHNSTON, Chicago, Ill., assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed Mar. 18, 1918. Serial No. 223,217. 9 Claims. (Cl. 180—77.)



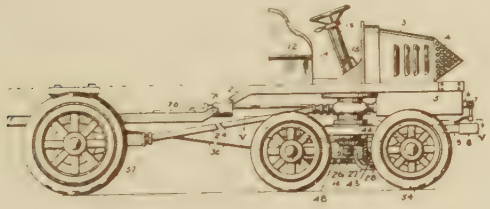
1. In a tractor, the combination of an engine and traction means, a clutch for transmitting power from the engine to the traction means, means for operating the clutch, an actuating member continuously driven from the engine, control means adapted, when actuated by the operator of the tractor, to connect the actuating member and clutch operating means, whereby the clutch will be engaged or disengaged, and means for disconnecting the actuating member and clutch operating means when the position of the clutch has been changed.

1,419,265. RELEASE HITCH. ROY B. JOHNSTON, Hamilton, Ontario, Canada, assignor, by mesne assignments, to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed Dec. 8, 1920. Serial No. 429,099. 6 Claims. (Cl. 213—67.)



1. In a release hitch, the combination of a draw-bar adapted for connection to an implement at one end, a draft hook pivotally connected to the other end, an arm carried by the hook, a link pivoted at one end to the arm, a second link pivoted at opposite ends to the first named link and draw-bar respectively, and resilient means engaging the draw-bar and connected to the second link intermediate its ends.

1,419,266. AUTOMOBILE. STEVE KALMA, Braddock, Pa., assignor of one-half to George Getsie, Braddock, Pa. Filed Oct. 12, 1920. Serial No. 416,424. 5 Claims. (Cl. 180—24.)

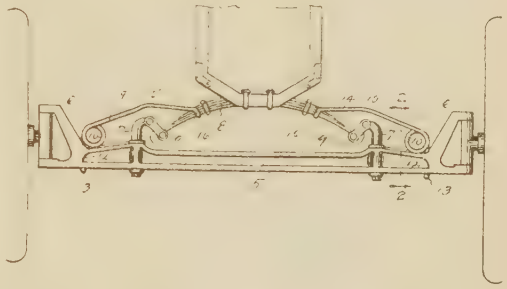


1. A motor vehicle comprising a chassis, a motor arranged at the forward end of the chassis, a truck arranged below the forward portion of the chassis and connected therewith, a pair of axles supported from the truck, a vertically disposed operative drive connection between said motor and one of the axles of the truck, an operative drive connection between said axles, a rear axle supported from the rear of the chassis, and an operative drive connection for the rear axle extended from said vertically disposed operative drive connection.

1,419,267. METHOD AND APPARATUS FOR GENERATING POWER. ALEXANDER T. KASLEY, Essington, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 11, 1916. Serial No. 114,397. Renewed Nov. 4, 1921. Serial No. 512,941. 14 Claims. (Cl. 60—37.)

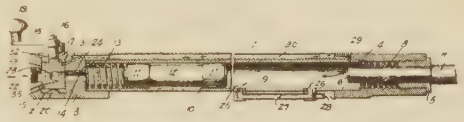
1. A method of generating power, which consists in subjecting a chemical agent to the action of a liquid chemical reagent in a closed receptacle, employing the heat generated by the chemical reaction in evaporating liquid contained within the receptacle, mixing the fluids evolved by the chemical action and by the evaporation, discharging the mixed fluids from the receptacle, separating the liquid from the gases and expanding the gases outside the receptacle in doing useful work.

1,419,268. COMBINED SHOCK ABSORBER AND SPRING SUPPORT. FRANK F. KEELER, Sr., Indianapolis, Ind., assignor of one-half to Thaddeus R. Baker, Indianapolis, Ind. Filed Dec. 16, 1921. Serial No. 522,884. 4 Claims. (Cl. 267—26.)



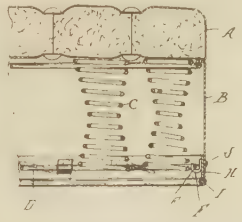
1. In a motor car, the combination, with a leaf-spring and an axle parallel with the spring, of an auxiliary spring for each end of the leaf-spring, each comprising a plurality of spring coils resting upon the axle, a depending arm from the coils having an end bent under and bearing against the axle, and having another arm extending inwardly of the car and bearing against the underside of the leaf-spring.

1,419,269. RIVET BREAKER. HARRY KELLER, Chicago, Ill. Filed Jan. 27, 1920. Serial No. 354,408. 8 Claims. (Cl. 121—21.)



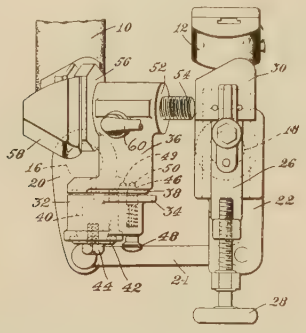
1. A pneumatic rivet breaker, comprising a cylinder, a head block for the rear end of said cylinder and having a transverse valve seat therein, a nose piece for the forward end of said cylinder, a piston for said cylinder, cushioning springs located in the extreme ends of said cylinder, a rotary valve in said transverse valve seat, having a body provided with a diametric port, a port at right angles thereto, an annular outer air passage and an outer longitudinal channel, said cylinder and head block having ports and passages controlled by said valve for permitting the inlet and exhaust of motive fluid and means for actuating said valve operable in a plane parallel to the axis of said cylinder.

1,419,270. CUSHIONED SEAT. FRED B. KING and ROBERT L. STEVENS, Albion, Mich., assignors to National Spring & Wire Company, Albion, Mich., a Corporation of Michigan. Filed Dec. 17, 1914. Serial No. 877,714. 8 Claims. (Cl. 155—180.)



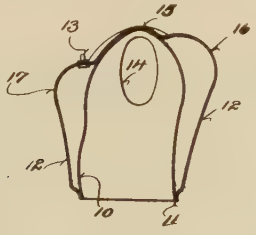
1. In a seat, the combination with a spring frame and a cushion, of a skirt depending from said cushion, enclosing said frame, a metallic strip secured to the inner face of said skirt adjacent to the lower edge thereof, and a plurality of inwardly-projecting upwardly-turned hooks on said strip for detachably engaging said spring frame.

1,419,271. GRINDING MACHINE. RALPH F. KNIGHT, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 19, 1920. Serial No. 397,262. 10 Claims. (Cl. 15 -100.)



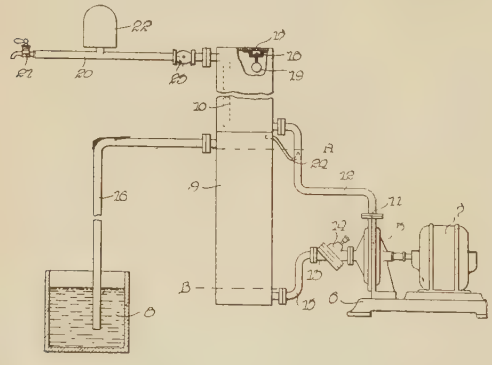
1. In a machine for grinding rotary cutters whose blades have different cutting angles, a grinding wheel and a bearing member pivotally mounted on an axis intersecting the grinding wheel to present the blades of the different rotary cutters in proper relation to the wheel for grinding.

1,419,272. INFLATABLE LIFE PRESERVER. ALBERT KOLBERG, Sheboygan, Wis. Filed Nov. 8, 1921. Serial No. 513,845. 1 Claim. (Cl. 9—20.)



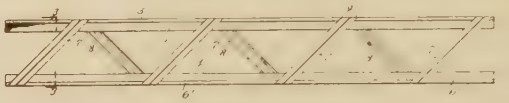
In an inflated life preserver, an inner member conforming to the dimensions of the chest, an outer member united at the waist to the inner member spaced therefrom above the waist, conforming to the outline of the body under the arms, a relatively large projection on said outer member below the neck and between the shoulders, a smaller projection on said outer member immediately below the chin of the wearer, and uninflated shoulder straps formed of united extensions of said members.

1,419,273. PUMPING SYSTEM. HARRY E. LA BOUR, Chicago, Ill., assignor to Chemical Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 9, 1920. Serial No. 402,159. 2 Claims. (Cl. 253—194.)



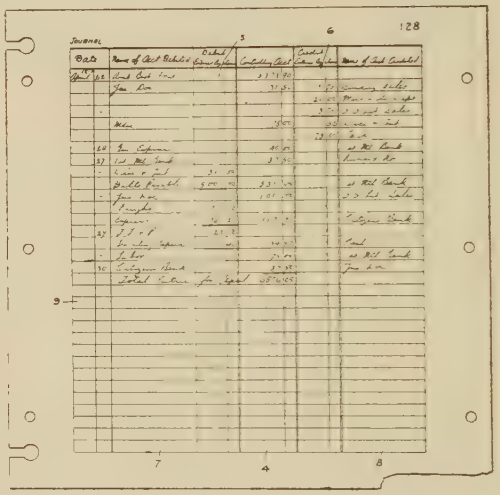
1. In combination, a valveless pump, intake and discharge lines therefor, said intake line extending above the level of the pump and having intake storage means between its point of highest level and the pump, said discharge line having storage means above the highest level of said intake line, and vacuum break connection between the highest point of said intake line and said discharge line between its storage means and the pump.

1,419,274. GIRDER OR FRAME. LAURENCE S. LACHMAN, New York, N. Y, assignor to Universal Electric Welding Company, New York, N. Y., a Corporation of New York. Filed May 8, 1916. Serial No. 96,020. 1 Claim. (Cl. 72—110.)



A girder comprising T-shaped longitudinal members, a series of parallel diagonal members on one side of said longitudinal members and a series of parallel diagonal members oppositely arranged on the other side of said longitudinal members, the ends of the bars of one series of diagonal members engaging the edge of the oppositely projecting flanges of the T members opposite the ends of the bars of the other series and electric welds joining said members at such points of engagement.

1,419,275. BOOKKEEPING ENTRY SHEET. GEORGE A. LAMBERT, Anderson, Ind. Filed Mar. 14, 1919. Serial No. 282,672. 6 Claims. (Cl. 283—66.)

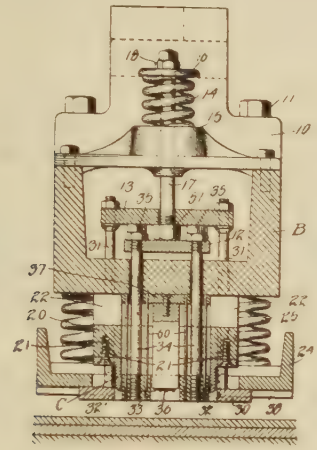


1. A bookkeeping entry sheet appropriately ruled and designated to form a central controlling column for the reception of both credit and debit amounts, a credit column at one side thereof, and a debit column at the opposite side thereof.

1,419,276. CUTTER FOR PASTRY-MAKING MACHINES. CHARLES R. LENTZ, Indianapolis, Ind. Filed Aug. 21, 1919. Serial No. 319,006. 4 Claims. (Cl. 107—26.)

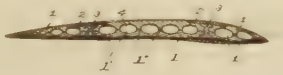
4. In a cake cutting machine, a reciprocating bar, a cutter carrying frame suspended from and raised and lowered by said reciprocating bar, cutters carried by said frame, a spring pressed plate below said frame through which the cutters pass, means for attaching said plate to said frame to provide limited movement of said plate independently of said cutter carrying frame, a pair of plunger plates above said cutter carrying frame secured together in spaced relation, yielding means for supporting said

plunger plates from the cutter carrying frame, a plate below said spring pressed plate adapted to strip dough from the exterior of said cutters, means for suspending



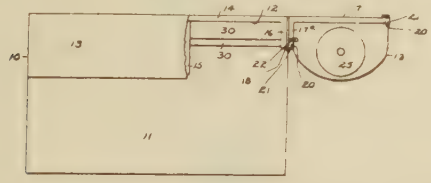
said stripper plate from said plunger plates, and a plurality of clearers movable interiorly of said cutters also suspended from said plunger plates.

1,419,277. AEROFOIL. FLAVIUS E. LOUDY, Mobile, Ala. Filed May 5, 1921. Serial No. 466,924. 8 Claims. (Cl. 244—31.)



4. An aerofoil embodying, in combination, two surface-forming members having uninterrupted and outer faces and also having portions of their inner faces routed out leaving raised positions in contact with each other.

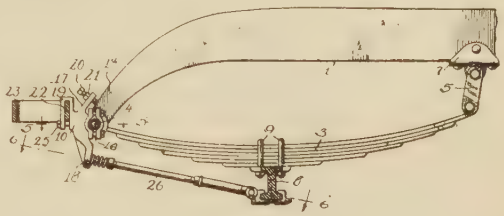
1,419,278. KITCHEN CABINET. LEONARD L. LUDWIG, Delavan, Kans. Filed Sept. 25, 1920. Serial No. 412,721. 2 Claims. (Cl. 45—16.)



2. In a kitchen cabinet, a compartment in the upper part and at one end of the cabinet, an L-shaped door to close the compartment, a portion of the door forming a portion of the side of compartment when closed, the door having a plurality of grooves in its inner face extending from top to bottom thereof, a bin having an expanded filling opening at its top and a discharge opening at its lower end, a plurality of cleats on the walls of the bin and slidably engaged in the grooves whereby the bin is vertically slidable on the door and parallel thereto for lowering the same for filling and means to releasably lock the bin in elevated position on the door.

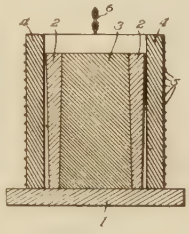
1,419,279. BUMPER-SUPPORTING BRACKET. WILLIAM R. MCGOWEN, Chicago, Ill. Filed Mar. 3, 1922. Serial No. 540,692. 10 Claims. (Cl. 293—55.)

4. A bumper supporting bracket adapted to be clamped to the spring bolt mounted at the front end of a vehicle frame member, and adapted to support a bumper extended forwardly thereof, and a thrust rod connected at one



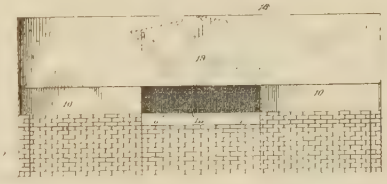
end with the vehicle axle and engaging said bracket at a point disposed radially from said spring bolt.

1,419,280. APPARATUS FOR RENDERING METAL HOMOGENEOUS. JOHN D. MCNEILL, Chicago, Ill. Filed Feb. 7, 1920. Serial No. 356,998. 2 Claims. (Cl. 22—200.)



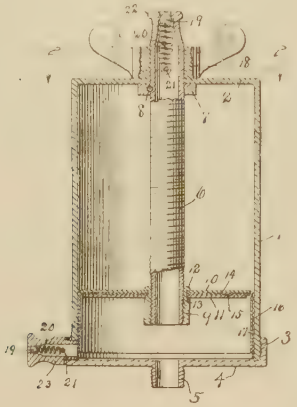
1. An apparatus for rendering cast metal more homogeneous consisting of a mold for receiving molten metal, and a solenoid arranged to slip over the metal, whereby on the energization of the solenoid a uni-directional magnetic flux may be maintained in the metal of the mold.

1,419,281. PICTURE-PROJECTION THEATER. ARTHUR L. MACBETH, Baltimore, Md. Filed Mar. 24, 1921. Serial No. 455,186. 4 Claims. (Cl. 88—24.)



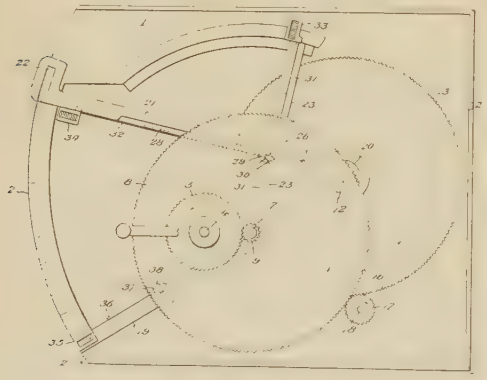
1. A moving picture theater comprising a house-like structure with three rooms, one located in front of the other, the rear room comprising an operator's booth with a projection machine therein and being divided from the middle room by means of an opaque transverse partition, a second transverse partition consisting of a translucent screen dividing the front and middle rooms, said opaque partition being provided with an opening through which the pictures are projected onto the screen, the front room comprising an alcove having an open front through which the pictures may be viewed as they are projected upon said screen, said front room or alcove having a forwardly and downwardly slanting top wall for providing a restricted opening at the front of the alcove whereby clear vision of the screen may be had from the exterior of the theater and the external light may be excluded from the screen, the side walls of the front room or alcove diverging forwardly whereby the alcove is made of flaring form so as to give the front opening of the alcove a wide dimension horizontally for permitting viewing of the pictures by a large audience.

1,419,282. GREASE CUP. JOHN H. MAIN, Detroit, Mich. Filed Jan. 13, 1921. Serial No. 436,867. 4 Claims. (Cl. 184—38.)



1. In a grease cup, the combination of a cylindrical shell, a bottom for the body having a discharge opening, a top for the shell provided with a central opening, a tube rotatable in the opening and a collar on the tube below said top, a second collar attached to the tube above the top, a check valve in the upper end of the tube to prevent the escape of the contents of the cup, said tube having a threaded exterior within the body, and a piston screwed onto the tube provided with a thin resilient skirting engaging the interior surface of the shell to prevent the rotation of the piston in the cup.

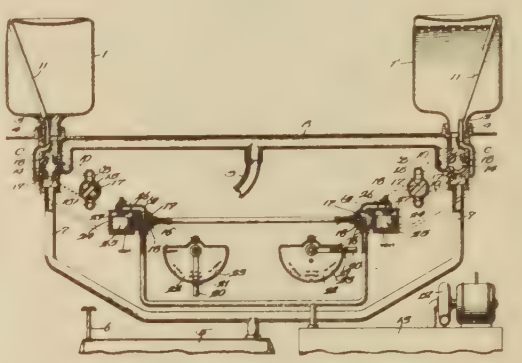
1,419,283. MATHEMATICAL INSTRUMENT. VERNON L. MATTSON, South Charleston, W. Va. Filed Jan. 3, 1920. Serial No. 349,272. 5 Claims. (Cl. 235—61.)



1. An instrument of the class described comprising a pair of spaced rotatable elements, means for rotating said elements in unison, setting means actuated by one element by having a part engaging the inner face thereof, said means indicating the length of the known side of a right triangle, a pair of counter mechanisms actuated by said rotary elements for indicating the lengths of the other sides of the triangle, said mechanisms having portions located between the elements and engaging the inner faces thereof and setting means for the said mechanisms movable to correspond with the degree of the angle.

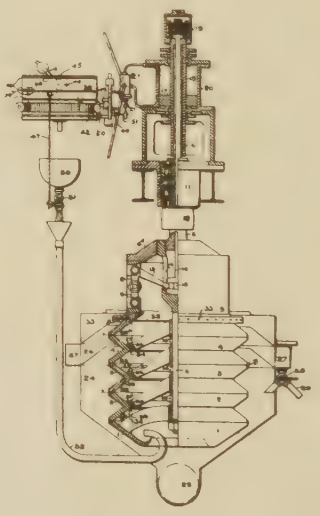
1,419,284. LIQUID-DISPENSING APPARATUS. HENRY E. MAURER, Jr., Springfield, Ill., assignor to Ideco, Springfield, Ill., a Corporation of Illinois. Filed Mar. 12, 1920. Serial No. 365,147. 2 Claims. (Cl. 221—95.)

1. Apparatus for dispensing liquid including two liquid containers; eduction piping communicating with said containers and through which liquid may be discharged therefrom; a source of liquid; induction piping connecting said source of liquid with said containers and through which induction piping liquid may be supplied to the containers from said source; vent tubes communicating with the upper portions of the containers; an air pump; and valving means adjustable to connect the vent tube of



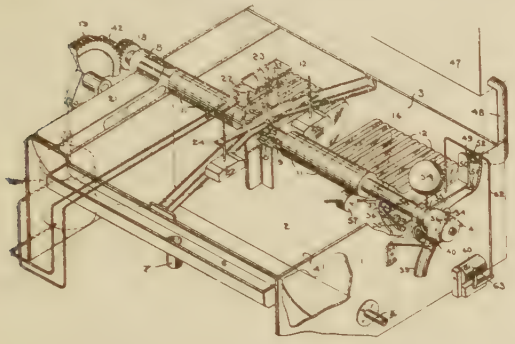
either container with the external air and the eduction piping with such container to discharge liquid therefrom and to cut off the induction piping from such container and at the same time to cut off the eduction piping from the other container and to connect the vent tube thereof with the air pump and to connect the induction piping therewith to fill such other container.

1,419,285. CENTRIFUGAL DECANTATION. WILHELM MAUSS, Johannesburg, Transvaal, South Africa, assignor to Continuous Centrifugal Separators Limited, Johannesburg, Transvaal, South Africa. Filed Feb. 19, 1920. Serial No. 359,787. 11 Claims. (Cl. 233—19.)



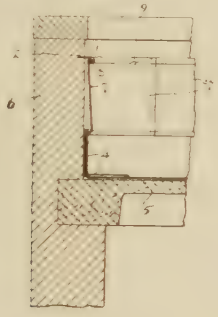
1. The process of centrifugal decantation which consists in centrifugally treating a batch of mixture to cause deposition of solid and decantation of liquid therefrom, fully separating the bulk of said batch, and partially separating the last portion of the batch, discharging the decanted liquid, separately discharging the fully separated solid of the main portion, and separately discharging the partially separated solid of the last portion.

1,419,286. VACUUM FILTER. WILHELM MAUSS, Johannesburg, Transvaal, South Africa, assignor to Continuous Centrifugals Limited, Johannesburg, Transvaal, South Africa. Filed Sept. 3, 1920. Serial No. 408,111. 9 Claims. (Cl. 210—196.)



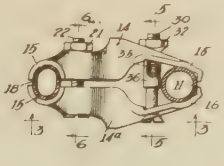
1. In filtering apparatus, a filter medium, and means causing the operation of a cycle including filtration and medium cleansing steps, said means controlling the cycle according to the permeability of the medium.

1,419,287. FLASHING AND COUNTERFLASHING FOR ROOFS, ETC. HERBERT C. MAXWELL, Cleveland, Ohio. Filed Jan. 20, 1921. Serial No. 438,564. 3 Claims. (Cl. 108—26.)



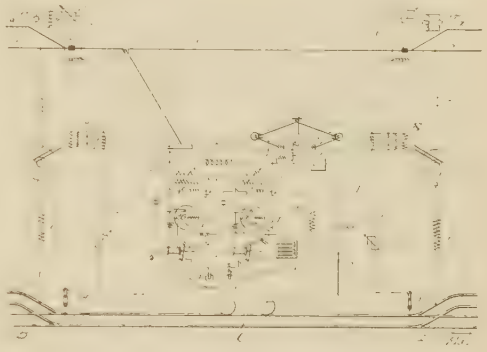
1. A flashing or the like comprising a retaining strip adapted to be secured to a wall, said strip having its outer edge formed with a downturned flange of spiral cross-section, a second strip formed with a curved flange along its upper edge adapted to rotatively engage with the flange on said first strip, and means interlocking said strips against relative movement.

1,419,288. CLAMP. CHESTER D. MILLER, Los Angeles, Calif. Filed Jan. 25, 1921. Serial No. 439,814. 2 Claims. (Cl. 296—84.)



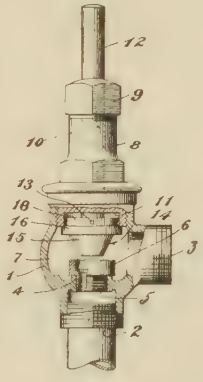
1. In a clamp, two members having jaw parts and one having an inclined part slotted transversely of the jaw parts, and a bolt for clamping the members together, the bolt being carried in the slot to be freely movable toward the jaws when tightened and having a part engaging said inclined part so that the bolt moves transversely toward the jaws when tightened.

1,419,289. RAILWAY SIGNALING AND TRAIN-CONTROL SYSTEM. JOHN A. MILLER, Los Angeles, Calif., assignor to Laurence R. Wilder, Chicago, Ill. Filed Feb. 21, 1919, Serial No. 278,425. Renewed May 6, 1922. Serial No. 559,060. 12 Claims. (Cl. 246—61.)



1. In a system of the class described, a track and a trolley wire section associated with a certain section of said track, means for applying high frequency oscillatory current to said trolley wire section at or near one end thereof, and means for applying high frequency oscillatory current of different frequency to said trolley wire section at or near the opposite end thereof.

1,419,290. VALVE. THOMAS W. MONAHAN, New York, N. Y. Filed Apr. 12, 1919. Serial No. 289,712. 2 Claims. (Cl. 251—27.)

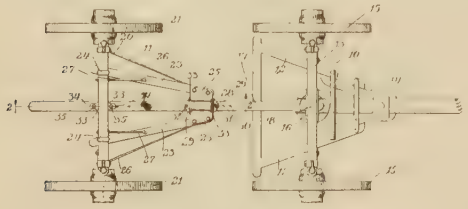


1. The combination with a valve body including a bonnet, said bonnet having a bore extending therethrough and an enlarged recess at the inner end of the bore, of a hollow cylindrical valve seat threaded into the body in alinement with the bore in the bonnet, a valve stem operable through said bore, a frusto-conical plug having its reduced end arranged to enter the valve seat, a flange at the larger end of said plug, the face of said flange adjacent the inclined face of the plug being inclined outwardly at substantially right angles to the face of the plug and retained by said plug out of contact with said seat, an extension on the face of the flange opposite the plug, said extension projecting into the recess in the bonnet when the valve is open, said extension having a socket therein to receive the valve stem and means to hold said stem in said socket.

1,419,291. WAGON REACH BAR. JAMES A. MOXEY, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Apr. 30, 1919. Serial No. 293,759. 3 Claims. (Cl. 280—141.)

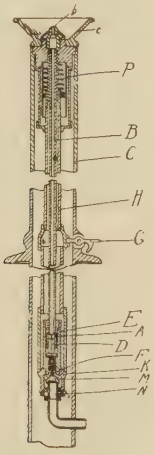
2. In a running gear for wagons, a truck including an axle, bolster, and bounds secured to said axle and bolster,

hound plates connecting said hounds, said hound plates forming a substantially cylindrical bearing, a reach bar rectangular in cross section, and a plurality of sets of



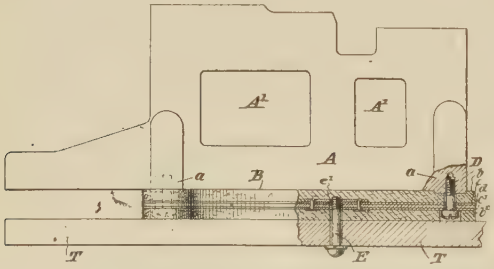
relatively adjustable bearing members carried by said reach bar and cooperating with the cylindrical bearing formed by said hound plates.

1,419,292. REGULATOR FOR ANTIFREEZING DRINKING FOUNTAINS. KELSO MURDOCK, Cincinnati, Ohio, assignor to The Murdock Manufacturing and Supply Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 5, 1920. Serial No. 363,618. 6 Claims. (Cl. 299—13.)



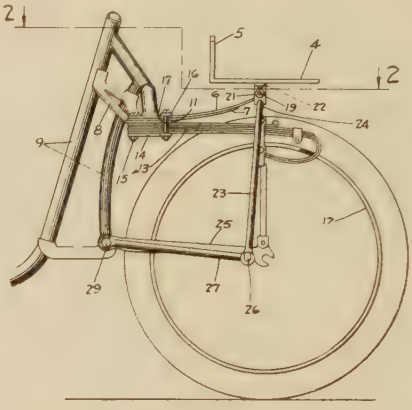
5. In a hydrant an adjustment device comprising a bonnet having a chamber, a recess, and a passage connecting the chamber and recess, a regulator within the chamber having a central bore and engaging adjustably in the passage, a valve adapted to seat in the regulator bore and in the passage, means adapted to adjust the regulator in the passage and means in the passage for holding the regulator in various positions.

1,419,293. SOUND-MUFFLING PAD FOR TYPEWRITING MACHINES. LEWIS C. MYERS, Brooklyn, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 22, 1921. Serial No. 494,319. 6 Claims. (Cl. 45—52.)



1. A sound-muffling pad, comprising a layer of sound-muffling material, a layer of stiffening material, and devices attached to the pad for receiving means for securing the pad to a support.

1,419,294. SEAT SUPPORT FOR MOTOR CYCLES. JOYCE C. NELSON, Minneapolis, Minn., assignor of one-sixth to Walter H. Nelson, one-sixth to Will N. Nelson, and one-sixth to Sadie A. Vandusen, all of Tracy, Minn. Filed Feb. 14, 1921. Serial No. 444,701. 9 Claims. (Cl. 208—24.)

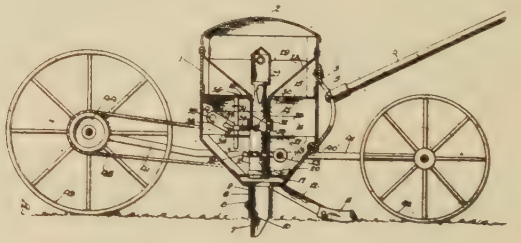


1. In combination with a motorcycle embodying a leaf-spring rear end construction, an auxiliary seat support including a pair of springs arranged side by side and adapted to be attached to the main frame of a motorcycle in superposed relation to the leaf springs of the rear end construction and rearwardly to extend thereover, a seat supported on said pair of springs adjacent the rear ends thereof, and an auxiliary frame depending from said seat and pivotally secured to the main frame.

1,419,295. PYROTECHNIC COMPOSITION. HARRY J. NICHOLS, Washington, D. C. Filed Mar. 30, 1921. Serial No. 456,986. 4 Claims. (Cl. 52—24.)

3. A pyrotechnic composition for use in signalling devices including red phosphorus, manganese dioxide, zinc oxide, magnesium metal, and aluminum, all in powdered form, and linseed oil as a desensitizing material.

1,419,296. SEED DRILL. ALVIN E. NIGHTINGALE, Cedarville, Mass. Filed July 20, 1921. Serial No. 486,135. 7 Claims. (Cl. 221—141.)

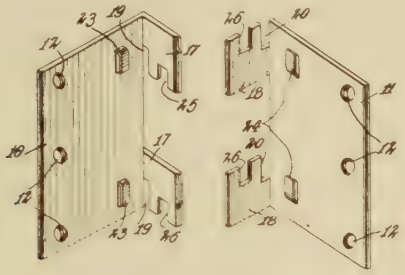


1. A seed drill comprising a container, a discharge spout depending from the lower end of the container, a seed-depositing tube disposed vertically within the container and rotatably mounted in axial alinement with the discharge spout, means in the upper end of the container for directing seed into the seed discharge tubes, and means in the lower portion of the container for rotating said tube.

1,419,297. FRAME FASTENER FOR BEDS OR OTHER ARTICLES. EMIL NOVITZKY, Detroit, Mich. Filed Feb. 24, 1922. Serial No. 538,891. 2 Claims. (Cl. 5—55.)

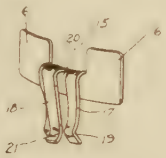
1. A device of the class described comprising a pair of plates each having angular lugs on one edge thereof,

the lugs on one of the plates being slotted from the bottom upwardly, and the lugs on the other plate being slotted



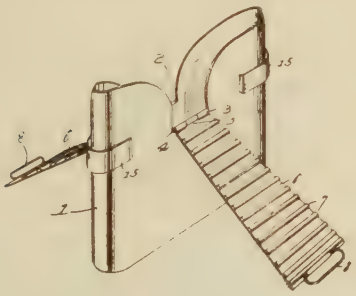
from the top downwardly, and tongues struck out from each plate and adapted to engage over the lugs on the other plate.

1,419,298. COLLAR BUTTON. JOHN O'NEAL, Terre Haute, Ind. Filed Feb. 26, 1921. Serial No. 447,987. 1 Claim. (Cl. 24—101.)



A collar button for attaching a collar to a garment, each having a button hole therein adapted to register, including a base portion non-passable through the garment button hole, and an attaching portion passable therethrough comprising three tongues adapted to lie parallel to said collar in two groups, the two outer tongues lying upon one side of said collar and the middle tongue lying upon the other side of said collar, one of said tongue groups being passable through the collar button hole when in registering relation, the ends of said tongues terminating adjacent each other and the tongues of each group having their ends extending in opposite directions from the ends of the tongues of the other group for clamping engagement.

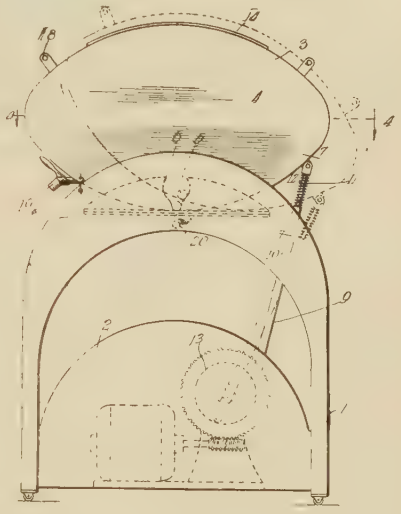
1,419,299. RAT TRAP. PEDRO ORBE, Carlin, Nev. Filed Sept. 3, 1920. Serial No. 407,939. 2 Claims. (Cl. 43—69.)



1. A rat trap comprising a housing, the sides of which are cut away and provided with coils for the reception of pintles, ways having their upper extremities embracing the pintles, and handles at the ends of the ways whereby the latter may be raised to serve as carrying means for the casing or extended to diagonal positions as means for entrance into the casing.

1,419,300. WASHING MACHINE. FRANK E. ORMSBY, Chicago, Ill. Filed July 21, 1921. Serial No. 486,433. 6 Claims. (Cl. 259—73.)

1. In a device of the kind described and in combination, a frame, a drum oval in vertical longitudinal cross-section arranged thereon, means dividing said drum into different zones, means for operating said drum so that it rocks to and from in a vertical plane in said frame whereby a portion of the liquid therein moves in a vertical plane in



the form of a figure 8 in one of said zones, and means in the other zone for moving another portion of the water therein in a continuous direction about the sides and ends of the drum transverse to said figure 8.

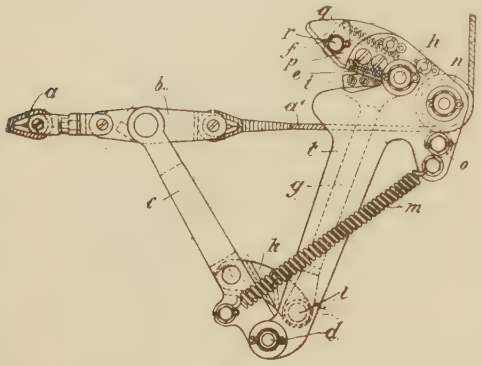
1,419,301. CARD HOLDER. EDGAR JOSHUA PALMER, Wichita, Kans. Filed Aug. 20, 1921. Serial No. 493,850. 1 Claim. (Cl. 40—16.)

In a card holder, a frame provided along three sides with overhanging card retaining flanges and with underlying card-supporting flanges; alined retainers projecting inwardly from the overhanging flanges of two of said sides and spaced from the fourth of the sides of the frame; and a third retainer extended between the overhanging flange of the third of said three sides and one of the alined retainers, the other of the alined retainers having an extension joined to the third retainer and defining therewith an angle in which a card may be gripped.

1,419,302. CUTTING DEVICE. MAX CARL AUGUST HERMANN PAPE, Kiel, Germany, assignor to Carbonit Akt.-Ges., Hamburg, Germany. Filed Aug. 24, 1921. Serial No. 494,857. 6 Claims. (Cl. 114—221.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. A device for cutting anchor-ropes of submarine mines, comprising a search line adapted to be drawn through the water, a cutter head slidably arranged on the search-line and provided with a fixed cutting blade and a movable

cutting blade, and a lever pivotally connected with the search line and in operative connection with the movable



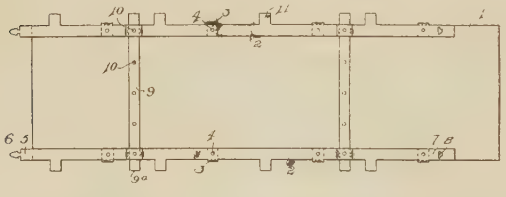
cutting blade, so as to move the latter against the fixed cutting blade when the cutter head is held back by the anchor rope of a mine.

1,419,303. TONGUE SUPPORT. CHARLES PEARSON, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed June 25, 1919. Serial No. 306,561. 17 Claims. (Cl. 280—84.)

1. In combination, a mower having a frame, a tongue carried thereby, supporting wheels for said frame, and a tongue support secured to said tongue in offset relation with respect thereto and disposed in the path of the grassward supporting wheel.

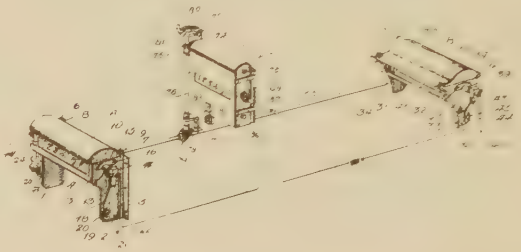
10. In combination, a mower having a frame, a tongue carried thereby, and adjustable means carried by said tongue and engaging said frame for preventing torsional strain on said tongue in a predetermined direction.

1,419,304. RECEPTACLE. WALTER M. PEASE, Brighton, N. Y., assignor of one-half to William A. Contant, Brighton, N. Y. Filed June 14, 1920. Serial No. 388,718. 8 Claims. (Cl. 217—44.)



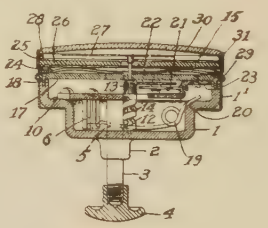
1. In combination with two heads, a knock down side wall comprising a flexible member having its edges arranged in overlapping relation, said side wall receiving in its ends the two heads, and flexible strips arranged exteriorly of the side wall along the upper and lower edges of said side wall, portions of each strip at opposite ends being free from the side wall and interlocked, and said strips having spaced lateral extensions projected beyond the upper and lower edges of the side wall extending over said edges and secured to the heads.

1,419,305. VEHICLE SIGNAL. FRANK REINL, Secaucus, N. J. Filed Mar. 19, 1920. Serial No. 367,151. 1 Claim. (Cl. 116—43.)



In a vehicle indicator, the combination of a casing comprising side plates provided with notches in their upper ends and each provided along one edge with means for attachment to a vehicle, and a web connecting the side plates below the upper ends thereof, the entire space between the side plates above the web being open, a cover hinged to and extending over the upper ends of the side plates and closing the notches therein, a rotatable display member disposed between the side plates above the web and visible between the web and the cover, spindles at the ends of the display member fitting in the notches in the upper ends of the side plates, means on the side plates to detachably retain the spindles in the notches, a shaft mounted exteriorly on one side plate, gearing connecting one end of said shaft with the spindle at the adjacent end of the display member, and means acting on the opposite end of teh shaft for operating the same.

1,419,306. INDICATING SURFACE GAUGE. WILLIAM H. REISNER, Hagerstown, Md., assignor to The L. S. Starrett Company, Athol, Mass., a Corporation of Massachusetts. Filed Apr. 7, 1921. Serial No. 459,443. 10 Claims. (Cl. 33—172.)

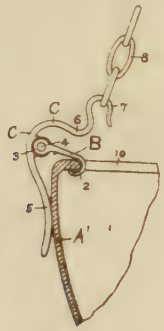


1. In a gauge, a guide-supporting surface, an actuatable member, an actuating member engageable with said actuatable member, a guide for said actuating member fulcrumed upon said guide supporting surface and means for rocking said guide upon its fulcrum to adjust said guide relative to the actuatable member.

1,419,307. DEVICE FOR SUSPENDING BOWLS AND THE LIKE. BENJAMIN RICHARDSON, Stourbridge, England. Filed Oct. 8, 1920. Serial No. 415,521. 2 Claims. Cl. 240—91.)

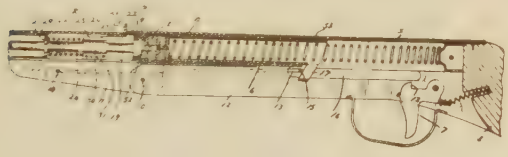
1. A device of the character described, comprising two members pivoted together, one of said members being

hooked to engage the rim of a bowl and the other of said members being bent to form a two-armed lever having one arm projecting below the pivotal point and adapted to bear against the surface of the bowl, and the other arm projecting substantially at right angles to the first-mentioned arm and adapted to be connected to suspen-



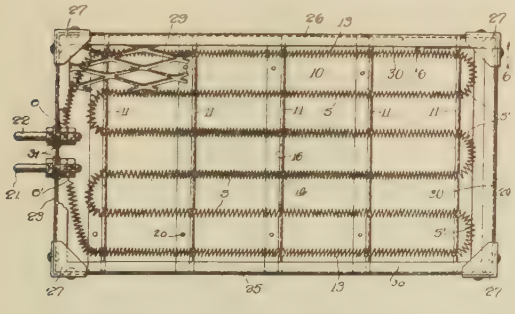
sion means, a transversely extending pivot member upon the said two-armed lever and intermediate the ends thereof, and a journal on the end of the hooked member opposite to that having the hook thereon and adapted to pivotally support the hooked member on the same side of the two-armed lever as the second mentioned arm.

1,419,308. AIR GUN. ERNEST S. ROE, Plymouth, Mich., assignor to Markham Air Rifle Company, Plymouth, Mich., a Corporation of Michigan. Filed Nov. 12, 1920. Serial No. 423,570. 10 Claims. (Cl. 124—11.)



1. In an air gun, the combination with the casing and an abutment therein, provided with an aperture for the passage of air, of a false barrel pivotally connected to said casing, a true barrel in said false barrel adapted to register with said aperture when said false barrel is in alignment with said casing, and yieldable means for sealing the joint between said true barrel and abutment, operated automatically by swinging said false barrel into alignment with said casing.

1,419,309. ELECTRICAL HEATING DEVICE. THOMAS C. RUSSELL, Chicago, Ill. Filed Mar. 23, 1921. Serial No. 454,781. 3 Claims. (Cl. 219—19.)

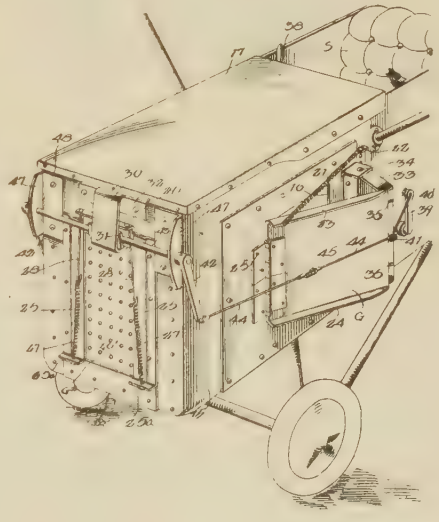


1. In an electrical heating device, the combination of a supporting plate, a metallic frame set on edge on said plate and having a plurality of openings therethrough communicating with the upper edge of the frame, a strip of mica secured on said frame and having holes in register with the frame openings but smaller than the frame openings, said strip having slits leading from one edge thereof through said openings and to said holes through which a resistance wire may be inserted to said holes.

1,419,310. GLASS CUTTER. HENRY A. RYTHER, Montague, Mass., assignor to Millers Falls Company, Millers Falls, Mass., a Corporation of Massachusetts. Filed June 14, 1921. Serial No. 477,452. 1 Claim. (Cl. 49—52.)

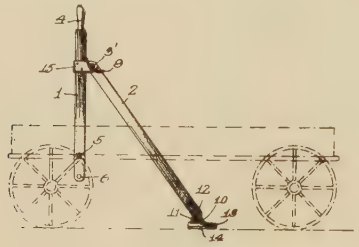
In a turret glass cutter which includes a turret-holder composed of a pair of spaced apart jaws and a clamping-screw; a relatively thick wheel-carrying turret having counterbored cavities in one side intersecting the periphery of the turret so that each cavity has a mouth on said periphery, and integral studs located in said cavities, and supporting the usual glass-cutting wheels, said cavities being formed to protect the major portions of the wheels, and to permit other portions to project outward from the periphery of the turret, the thickness of the turret conforming to the space between the said jaws, so that each side of the turret contacts with one of the jaws.

1,419,311. FIRE EXTINGUISHER FOR AIRPLANES. WILLIAM JOHN SANKEY, Jr., Hatchechubbee, Ala. Filed May 16, 1921. Serial No. 469,844. 7 Claims. (Cl. 244—1.)



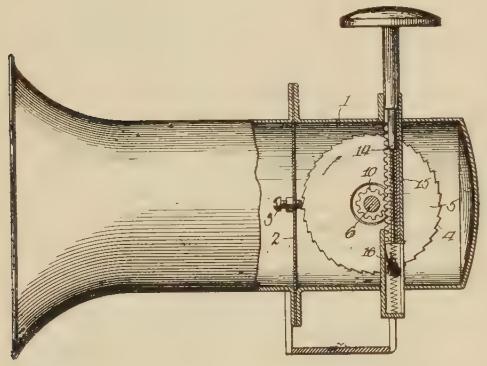
6. In combination, a fuselage having draft openings in the walls thereof, closures for said openings, said fuselage being substantially air-tight when said closures are in position to close said openings, and the flow of air through said draft openings being controlled in accordance with the position of said closures, and operating means for said closures.

1,419,312. PROPELLING ATTACHMENT FOR CHILDREN'S VEHICLES. FREDERIC S. SEAGRAVE, Detroit, Mich. Filed Oct. 13, 1919. Serial No. 330,198. 1 Claim. (Cl. 208—38.)



A propelling attachment for children's vehicles, comprising a lever member having means for pivotally attaching said member to a vehicle, a propelling member pivotally attached to the lever member at its upper end and intermediate the ends of the lever member, a foot member pivotally attached adjacent its forward end to the lower end of said propelling member and having a substantially flat lower surface to engage the surface over which the vehicle is propelled, whereby when said foot is raised by said propelling member, said foot will be turned by gravity with its flat lower surface inclined forwardly and upwardly.

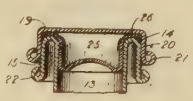
1,419,313. MECHANICALLY-OPERATED HORN. GEORGE J. SEISS, Toledo, Ohio. Filed Mar. 11, 1918. Serial No. 221,601. 1 Claim. (Cl. 116—144.)



In a device of the character described, the combination with a cylindrical horn body, of a diaphragm, an actuating lug on said diaphragm, a shaft, a disc fixed on said shaft, having a plurality of teeth on its periphery which engage the said lug, there being an annular recess in said disc adjacent the shaft and surrounding the same, a pinion loosely mounted for rotation on said shaft, a collar fixed on said shaft to hold said pinion against longitudinal movement thereon, a laterally extending flange on said pinion fitted to said recess, a plurality of cams extending radially from said flange, a plurality of rolling members intermediate the cams and the circumferential wall of the recess whereby when the pinion is rotated in one direction they engage said wall and rotate said disc with said pinion, but which automatically disengage themselves when the pinion is rotated in the opposite direction and a flange on said pinion which closes said recess.

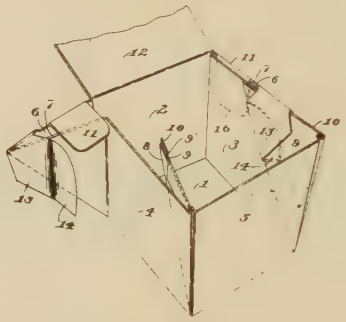
1,419,314. SHEET-METAL CAN. ISAAC E. SEXTON, Boston, Mass. Filed Oct. 29, 1919. Serial No. 334,174. 2 Claims. (Cl. 220—60.)

1. A sheet metal can comprising, in combination, a one-piece sheet metal member including a tubular mouth, an annular neck bent outward from the outer end of the mouth, and a tubular flange extending inward from the neck, and provided at its inner end with an outwardly projecting annular lip, the external surface of the flange constituting an external annular friction face coaxial with and surrounding the mouth; and a cap including a head and an annular flange projecting inwardly from the head and provided at its inner edge with an outwardly projecting annular lip, the internal surface of the cap



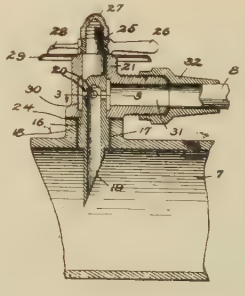
flange constituting an internal annular friction face, adapted to closely fit said external face and form a tight friction joint therewith, the said neck stiffening the mouth without internally obstructing the latter, and forming a sealing member seat which limits the inward movement of the cap to its operative position, the arrangement being such that the said lips are spaced apart to permit the removal of the cap by a prying tool inserted between the lips.

1,419,315. RECEPTACLE. ORVILLE O. SHELINE, Chicago, Ill. Filed June 10, 1921. Serial No. 476,455. 10 Claims. (Cl. 229—31.)



1. A receptacle comprising a back, front, sides, bottom, and front and rear folded corners, one of said corners being adapted to be folded within the receptacle, and the other without the receptacle, and means carried by one of the folded corners adapted to overlie the side and cooperate with the other folded corner for holding the parts in assembled folded relation.

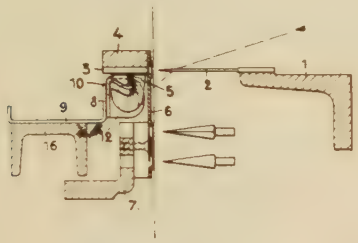
1,419,316. TURBOCOMPRESSOR CONTROL. EARL H. SHERBONDY, Cleveland, Ohio. Filed May 14, 1918. Serial No. 234,560. 4 Claims. (Cl. 103—92.)



1. In combination, a fluid pump, a delivery pipe for the pump, a pressure responsive means to control said pump, and devices connected to said pressure responsive means adapted to be adjustably positioned in the fluid

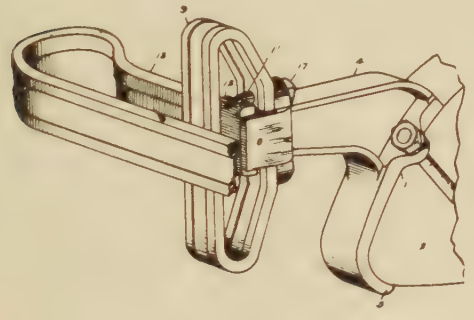
column within said delivery pipe to vary the intensity of the pressures communicated to said pressure responsive means in accordance with the angular position of said device relative to the axial flow of said fluid column.

1,419,317. SHUTTLE EMBROIDERING MACHINE. GOTTWALT SIEBER, Plauen, Germany. Filed Sept. 10, 1921. Serial No. 499,858. 5 Claims. (Cl. 112—95.)



1. In a shuttle embroidering machine, the combination with horizontally reciprocating needles and a bar having channels in front of said needles, of means reciprocating below the channels of said bar horizontally and at a right angle to said needles and shuttles supported in said means to extend longitudinally of the path of said means.

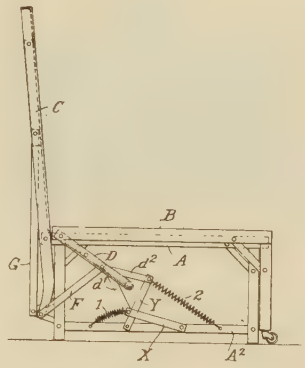
1,419,318. BUMPER. LOUIS M. SINGER, Toronto, Ontario, Canada. Filed Oct. 31, 1921. Serial No. 511,622. 4 Claims. (Cl. 293—55.)



3. In a vehicle bumper, in combination, bumper supports having forward projections terminating in flat vertical faces, bumpers comprising vertically arranged bars having backwardly turned meeting ends abutting said faces respectively, a horizontal impact receiving member having backwardly folded ends engaging the backwardly turned ends of said vertical impact receiving members, and fastening members exending through openings in the ends of said vertical impact receiving members and said faces and locking said horizontal impact receiving member to its position.

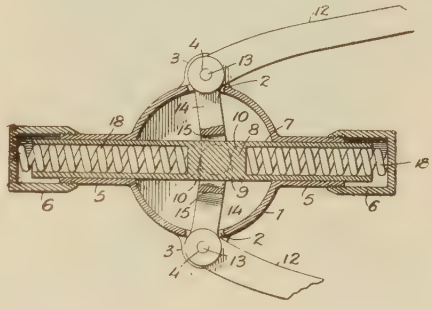
1,419,319. CONVERTIBLE BED. GEORGE F. SISBOWER, Flushing, and LOUIS E. PITTONI, New York, N. Y., assignors to Manhattan-Rome Company, branch of Rome Metallic Bedstead Co., Long Island City, N. Y., a Corporation of New York. Filed Mar. 11, 1921. Serial No. 451,510. 4 Claims. (Cl. 5—16.)

4. A convertible bed comprising two frames which may be nested to form a seat, an intermediate member in the form of a U-bar constituting a strut for one side of one of said frames and jointed thereto at its ends, brackets on said member, links joining said brackets respectively to the other frame, a third frame forming a back for the



seat and linked to said member and springs acting on said links to aid the start and resist the finish of both opening and closing movements.

1,419,320. SHOCK ABSORBER. BRINAY SMARTT, Indianapolis, Ind., assignor of one-half to W. J. Kearney and one-fourth to Hassel D. Robinson, both of Indianapolis, Ind. Filed Aug. 17, 1921. Serial No. 493,049. 1 Claim. (Cl. 267—20.)

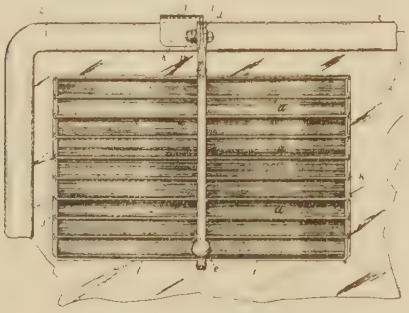


In a shock-absorber, a casing having two tubular, open-ended extensions, means normally closing the outer open ends of said extensions, a cylindrical member extending diametrically across said casing and projecting into said extensions and axially bored from the ends thereof to a point near the longitudinal center thereof, to form two connected twin barrel portions, the longitudinally-central portion of said cylindrical member being cut away on two opposite sides to form a reduced bridge having parallel flat faces, coiled compression-springs within said extensions and projecting into said barrel-portions, and bell-crank levers fulcrumed to said casing with the shorter ends thereof projecting into the casing and having overlapping yoke-terminals, one thereof lying against the flat faces of said bridge, and said yoke-terminals having curvilinear edges bearing against the curvilinear end walls of said bridge.

1,419,321. VISION SHIELD. HENRY LUND SMITH, Paterson, N. J. Filed Sept. 21, 1920. Serial No. 411,724. 4 Claims. (Cl. 296—97.)

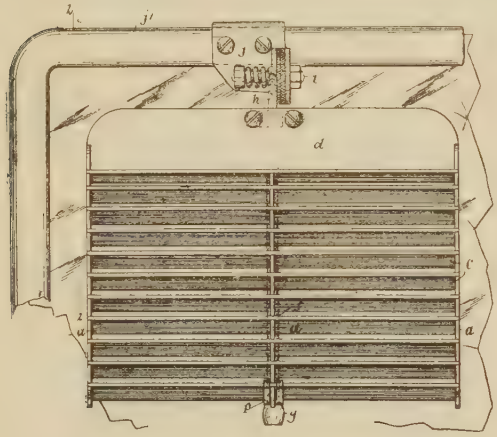
1. A vision shield composed of a series of translucent areas and a series of clear-vision areas arranged in alternation with the translucent areas and respectively imme-

diately adjoining and appreciably narrower than the translucent areas as viewed by the user when said series



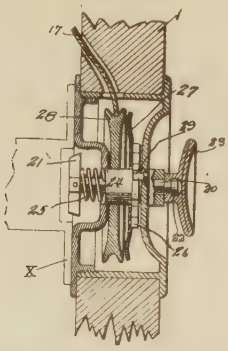
intervenes between him and the objective and stands substantially perpendicular to his line of vision.

1,419,322. SHIELD. HENRY LUND SMITH, Paterson, N. J. Filed Feb. 4, 1921. Serial No. 442,443. 6 Claims. (Cl. 296—97.)



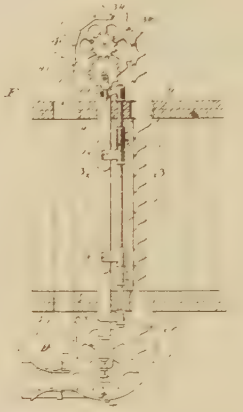
1. In combination, with a shield including shielding vanes rigidly held in planes at an angle to each other, an upright, and means to secure the shield to the upright with one vane substantially parallel therewith, said means engaging the latter vane.

1,419,323. CAMERA. WILLIAM SAUL SMITH, Baltimore, Md., and FREDERIC S. WILLIAMS, Philadelphia, Pa. Filed Feb. 2, 1920. Serial No. 355,745. 20 Claims. (Cl. 95—32.)



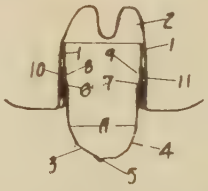
1. In a camera, the combination with the shutter-opening mechanism, of means for disabling said mechanism on an exposure to guard against duplication of exposures on the same film-section, film-winding-mechanism, means for locking the film-winding mechanism against operation, and means for releasing the film-winding mechanism and operatively connecting the disabling-means and the film-winding mechanism, whereby, on operation of the film-winding mechanism, the disabling-means will be actuated to again enable the shutter-opening mechanism.

1,419,324. BOTTLE-FEEDING MECHANISM FOR ANNEALING OVENS. WILLIAM STENDER, Milwaukee, Wis. Filed Feb. 28, 1921. Serial No. 448,294. 6 Claims. (Cl. 198—31.)



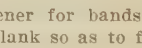
1. The combination with an annealing oven, of means for conveying a row of bottles thereinto, including an endless belt conveyor having a series of fingers for grasping the bottles successively and conveying them into and along the bed of the oven, a pusher for delivering the series of bottles to the bed of the oven, means timed to operate said pusher when said series of bottles extend substantially across the oven, blanks on said conveyor between the series of grasping fingers, and timed to reach the wall of the oven simultaneously with the operation of said pusher whereby no bottles will be carried into the oven to interfere with the operation of the pusher.

1,419,325. HAT HOLDER. JAMES A. STORM, St. Louis, Mo. Filed Mar. 6, 1919. Serial No. 281,087. 1 Claim. (Cl. 132—58.)



In combination with the inner sweat band of a hat, said band being pierced with oppositely located eyelets; a hat holder comprising a retaining band including two pieces adjustably connected to each other; and hooks at the free ends for releasably engaging said eyelets.

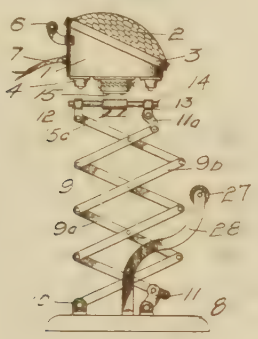
1,419,326. FLAT-HOOK FASTENER. JAMES A. STORM, St. Louis, Mo. Filed Feb. 20, 1920. Serial No. 360,195. 1 Claim. (Cl. 24—36.)



A flat hook fastener for bands, same being stamped from a thin metal blank so as to form an elongated base

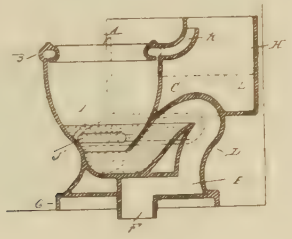
portion, a lock prong extending from one end of the base portion, in axial alignment therewith and adapted for piercing through an end of the band and bending down thereupon; another and shorter lock prong struck from the base portion adjacent and in axial alignment with the first mentioned lock prong, and likewise adapted for piercing through the same end of the band and bending down thereupon in the same direction with the other prong; and a hook prong extending from the opposite end of the base portion in axial alignment therewith and with said lock prongs, same being adapted for bending over toward the lock prongs to form a hook to detachably engage the other end of the band.

1,419,327. PORTABLE ELECTRIC LAMP. JERRY J. SULLIVAN, Spokane, Wash. Filed May 17, 1921. Serial No. 470,254. 4 Claims. (Cl. 240—7.)



1. The combination in a portable lamp with a base, of a lazy-tongs stand mounted thereon and a supporting bar on said stand, an adjustable bracket on said bar, a rotary lamp supported in the bracket, and means for retaining said lamp in the bracket.

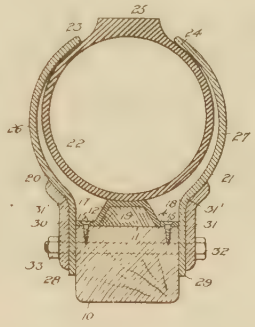
1,419,328. WATER CLOSET. JAMES M. TEAHEN, Detroit, Mich., and WILLIAM TAYLOR, Ford, Ontario, Canada; said Taylor assignor to said Teahen. Filed June 11, 1920. Serial No. 388,106. 6 Claims. (Cl. 4—28.)



1. A water closet comprising a siphonic action bowl, a tank connected therewith for forming a gravity head between the water seal and the top of the bowl, the normal water level of said tank being located below the top of said bowl, and means for establishing communication between said tank and bowl to start siphonic action.

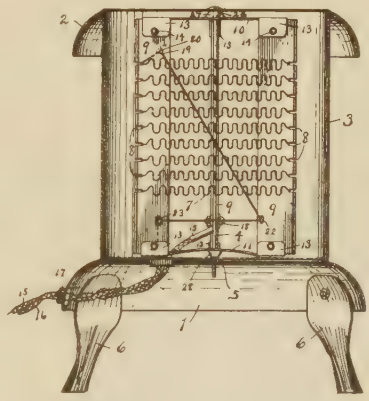
1,419,329. VEHICLE WHEEL. RUBY R. VALE, Milford, Del. Filed Jan. 31, 1921, Serial No. 441,343. Renewed May 4, 1922. Serial No. 558,426. 5 Claims. (Cl. 152—10.)

1. In combination, a supporting member, a cradle engaging said member at either edge thereof and having an elevated portion in the center, a tire resting on said cradle, and a plurality of side members spaced from said



tire member except in proximity to the tread portion thereof, and means for securing said side members to said supporting member.

1,419,330. ELECTRIC HEATER. FRANK G. VAN DYKE, Detroit, Mich. Filed Dec. 19, 1921. Serial No. 523,445. 3 Claims. (Cl. 219—19.)

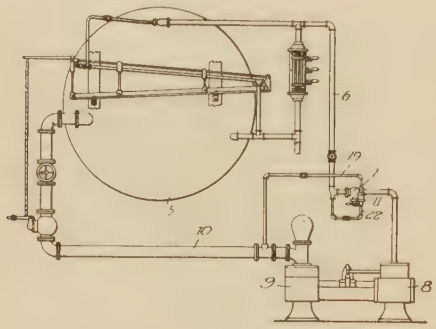


1. In an electric heater, the combination of a top, a base and a shell between them, a bolt connecting the top and bottom, a pair of spiders mounted on said bolt and having arms, one of said spiders being located adjacent the top and the other adjacent the base, a series of non-conducting strips extending between the spiders and attached to the ends of the arms thereof, said strips having notches in their outer upright edges, resistance wire extending around said strips and fitting in said notches, and conductor wires attached to the ends of the resistance wires.

1,419,331. FLUID-PRESSURE CONTROLLER. VINCENT V. VEENSCHOTEN, Erie, Pa., assignor to Northern Equipment Company, Erie, Pa., a Corporation of Pennsylvania. Filed Aug. 15, 1918. Serial No. 249,976. 3 Claims. (Cl. 103—90.)

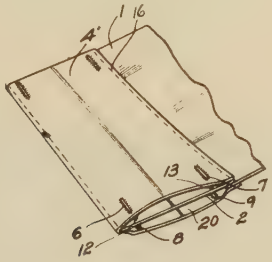
1. A pressure governor comprising a casing, a longitudinally elastic container enclosed in said casing with one of its ends fixed to said casing, means for passing

a fluid under pressure into said container, means for passing a fluid under pressure into said casing, operating



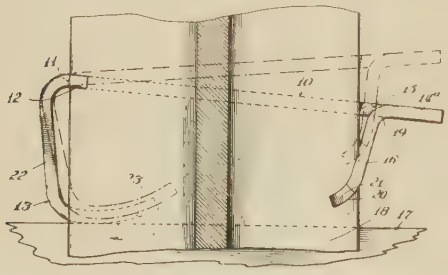
means fixed to the free end of said container and a coil spring encircling said container and fixed to said operating means.

1,419,332. CUFF. CYRUS M. WALKER, Kansas City, Mo. Filed Oct. 22, 1920. Serial No. 418,669. 1 Claim. (Cl. 2—79.)



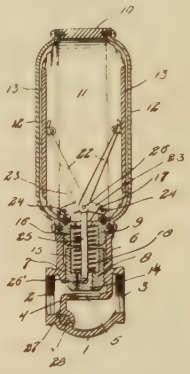
The combination with a shirt sleeve, having a cuff permanently secured thereto and provided with button holes, of a supplemental cuff covering the permanent cuff and having independent button holes aligning with those in the permanent cuff and secured to the sleeve by a line of chain stitches, so that it may be readily detached therefrom, the ends of the supplemental cuff being open to permit the introduction of the fingers of the operator to engage between the cuff folds to insert the buttons.

1,419,333. RAIL ANCHOR. HAROLD G. WARR, Park Ridge, Ill., assignor to The P & M Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 17, 1921. Serial No. 493,100. 14 Claims. (Cl. 238—330.)



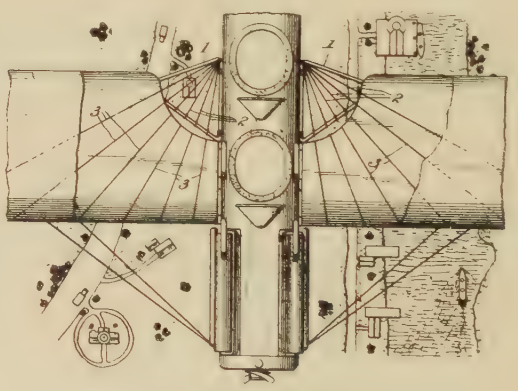
1. A rail anchor comprising a body portion formed at one end with means for engaging a rail at one side thereof and at the other end with a tongue bent outwardly toward the end of the device and adapted to be strained when the anchor is applied to a rail.

1,419,334. AUTOMATIC SAFETY CUT-OFF. ROBERT T. WEBB, St. Louis, Mo., assignor, by direct and mesne assignments, of one-fourth to Geo. W. Reed, Jr., and one-fourth to Lynton D. Wyant, Tulsa, Okla. Filed Jan. 17, 1921. Serial No. 437,885. 2 Claims. (Cl. 67—115.)



1. The combination with a fluid pressure service system, of a casing having an inlet and an outlet, a hollow valve for closing communication between said inlet and outlet, a fluid pressure chamber in communication with the inlet through the valve when the valve is opened and closed against communication with the inlet when the valve is closed, a spring operating by expansion to close the valve, a pair of diaphragms in said pressure chamber, links connected to said valve and extending into said pressure chamber, a pair of rock levers connected with said links, and the said rock levers being connected with said diaphragms whereby movements of the latter will control the movement of the valve.

1,419,335. DRIFT SIGHT. DAVID L. WEBSTER, Boston, Mass., and HENRY NORRIS RUSSELL, Princeton, N. J. Filed Aug. 11, 1919. Serial No. 316,756. 8 Claims. (Cl. 33—46.)

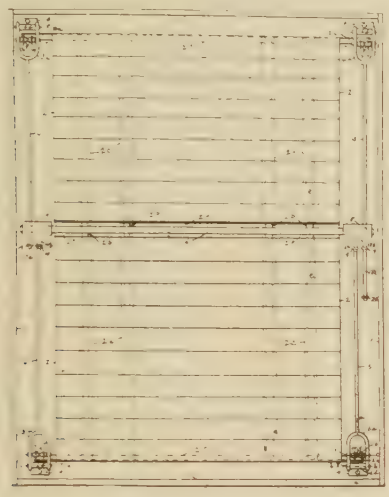


1. An airplane having a fuselage, and wings extending laterally therefrom and at the lower part thereof, each of said wings being recessed at its trailing edge adjacent the fuselage, a frame secured in each recess and having wires radiating forwardly and outwardly from the fuselage, and said wings having lines marked on their upper surfaces in alinement with the wires of said frames.

1,419,336. SCALE. GUSTAVE WENZELMANN, Galesburg, Ill. Filed Aug. 4, 1919. Serial No. 315,354. 9 Claims. (Cl. 265—71.)

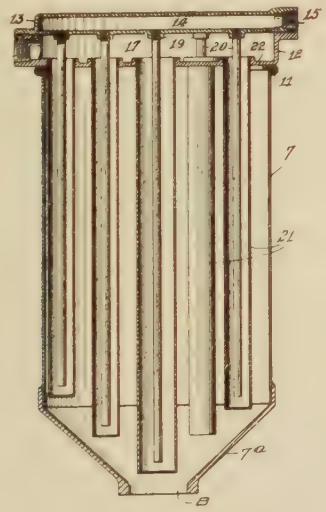
1. A device of the character described comprising a scale platform and a set of main supporting levers for same, said levers and their fulcra being placed entirely

exterior to the space occupied and covered by said platform; and, in combination with said platform and main levers, a compound intermediate lever, and a main connecting bar for the same, there being a slot in and across said



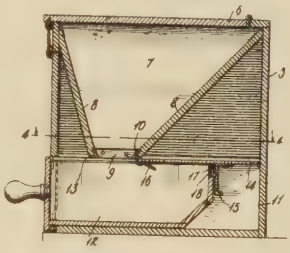
platform, above the supporting beams thereof, adapted to provide space for the installation of said main connecting bar and to permit the removal of the same.

1,419,337. SIRUP COOLER. THEODORE WERNER, Rochester, N. Y., assignor to John Werner & Sons, Inc., Rochester, N. Y., a Corporation. Filed Feb. 7, 1920. Serial No. 357,055. 1 Claim. (Cl. 257—231.)



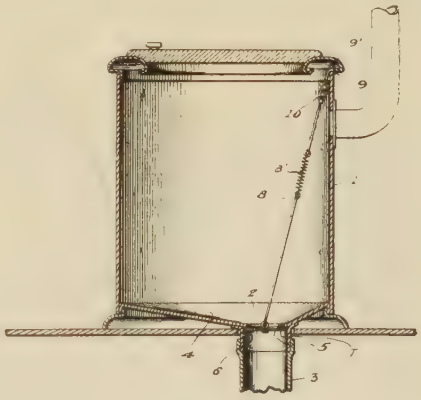
A cooler of the class described comprising a tank for the material to be cooled having a conical lower end provided with a central discharge opening, and a cover for the tank formed with two chambers, one being provided with an inlet and the other being provided with an outlet, a set of outer tubes opening at their upper ends to one of the chambers and closed at their lower ends, some of which have their lower ends depending into the conical lower end of the tank, the central one of said outer tubes projecting below the others concentrically with reference to the discharge opening, and a set of inner tubes arranged concentrically within the outer tubes opening at their upper ends to the other chamber in the cover and at their lower ends to the outer tubes

1,419,338. MEASURING GROCERY BIN. JOHN E. WIENEKE, Union, Mo. Filed Aug. 18, 1921. Serial No. 493,297. 1 Claim. (Cl. 211—9.)



The combination of a bin, of a hopper mounted therein having inclined walls which define a discharge opening at the lower end thereof, a drawer compartment extending transversely of the hopper and provided with opposed longitudinal grooves, a gate valve slidable in the grooves, a depending abutment carried by the plate valve to be engaged by the rear end of the drawer upon inward movement of the same to move the valve to open position, a resilient angularly disposed plate carried by the forward end of the valve to be engaged by the rear face of the wall of the drawer, whereby to move the valve to closed position upon withdrawal of the drawer.

1,419,339. CLOSET. FRANK X. WILD, Amherst, Wis. Filed Mar. 21, 1921. Serial No. 454,123. 1 Claim. (Cl. 4—20.)

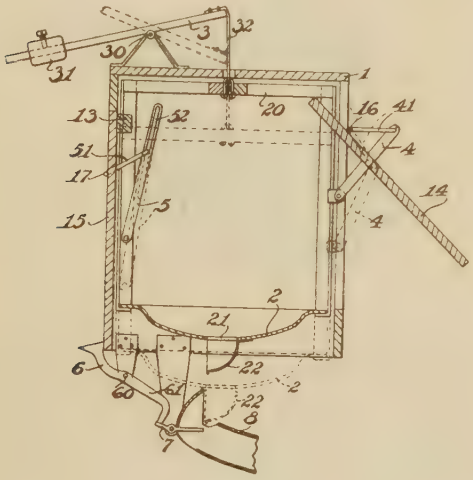


A device of the class described comprising a container, an outlet at its lower end, a drain connected with said outlet, a downwardly opening valve plate hinged to the bottom of the container, a two-part rod swiveled at one end to the valve plate, a spring connecting the two parts together, a turn buckle attached to the rod and a hooked member connected with the turn buckle and adapted to engage the upper edge of the container.

1,419,340. TRAP NEST. CHARLES J. WILLIAMS, Seattle, Wash. Filed Oct. 5, 1920. Serial No. 414,740. 4 Claims. (Cl. 119—47.)

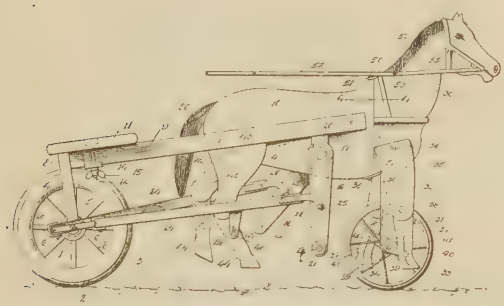
1. In a trap nest, in combination, an outer casing having entrance and exit openings, a yielding nest platform therein having an egg aperture, an entrance door connected

with said platform to be closed by the lowering thereof, an exit door connected to said platform and independent of the entrance door, the exit opening being unobstructed beneath said exit door, the exit door being hinged upon



said casing and normally tending to remain open when said platform is lowered, a latch operable to hold the exit door in closed position, an egg chute below the egg aperture, and latch-releasing means projecting into said egg chute to be operated by an egg when deposited.

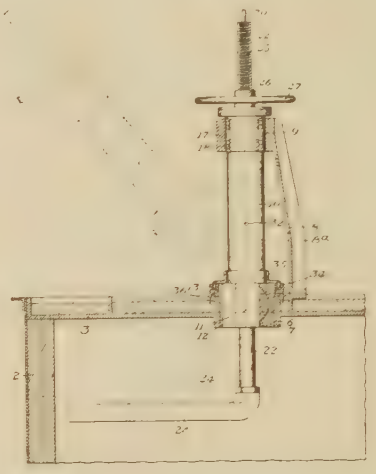
1,419,341. VELOCIPEDE. WILLIAM R. WILLIAMS, Owensboro, Ky. Filed Mar. 19, 1921. Serial No. 453,727. 4 Claims. (Cl. 208—42.)



1. A velocipede comprising a cart, a figure connected with the cart and simulating an animal, a wheeled support for the front end of said figure, pedals pivotally hung upon the body of said figure, a cranked axle in the cart, pitmen connecting the pedals with the said cranked axle whereby to propel the velocipede, jointed legs pivotally hung upon the body portion of the figure in rear of the pedals, and pin and slot connections between the pitmen and the lower portions of the respective legs whereby as the velocipede is propelled a knee-bending action will be imparted to the legs.

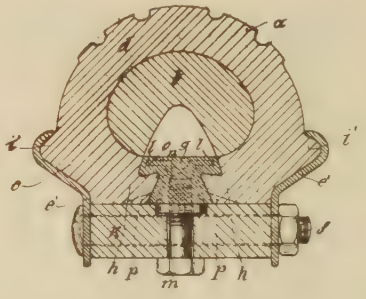
1,419,342. POKER FOR GAS PRODUCERS. EDGAR H. WILSON, Chartiers Township, Allegheny County, Pa., assignor to Taylor-Wilson Manufacturing Company, McKees Rocks, Pa., a Corporation of Pennsylvania. Filed Aug. 21, 1920. Serial No. 405,152. 16 Claims. (Cl. 48—85.2.)

1. A poker for gas producers, comprising a casing having its lower end provided with a polygonal bearing surface, a sleeve slidably engaging said surface, a poker oper-



atively secured to said casing, and means for rotating said sleeve to operate the poker, substantially as described.

1,419,343. RUBBER TIRE. ALBERT WITZEL, Ludwigsburg, Germany. Filed Mar. 10, 1920. Serial No. 364,869. 3 Claims. (Cl. 152—6.) (Granted under the provisions of the act of Mar. 3, 1921. 41 Stat. L., 1313.)

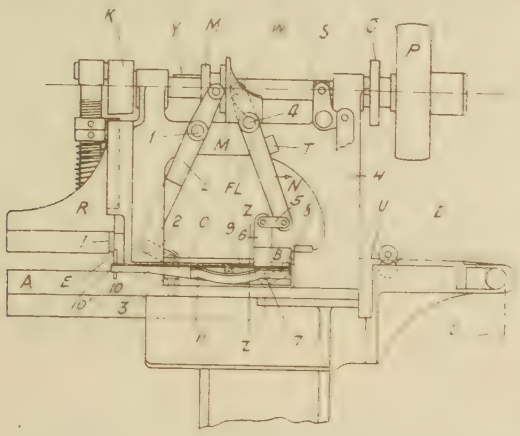


2. The combination with a rim; of a rubber tire mounted thereon and having a central opening therein, a tread portion and a base portion, the former being more resilient than the latter; transverse strengthening ribs on the internal surface of the tire, said ribs being disposed at an oblique angle relative to the medial plane of the tire, the terminal portions of the ribs resting on the less resilient base portion of the tire; and a ring for maintaining the tire on the rim, said ring having lateral extensions for engaging the side edges of the tire near the base portion thereof.

1,419,344. CORNER STAYING, METAL-EDGING, AND LIKE MACHINE. JOHN WILLIAM NASMITH, Heaton Mersey, Manchester, England. Filed Apr. 9, 1921. Serial No. 460,143. 3 Claims. (Cl. 74—105.)

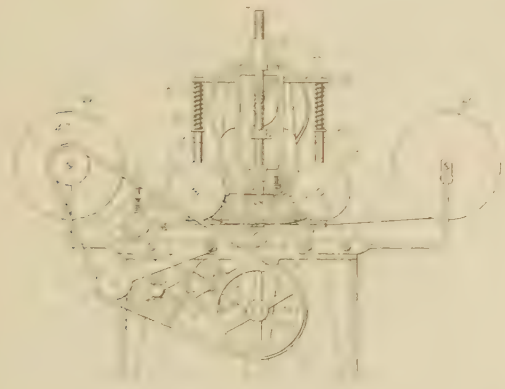
1. A machine of the character stated, comprising an anvil, a ram movable toward and from the anvil, means for intermittently feeding a strip of material between the ram and the anvil, and pushing mechanism for positively removing an obstruction from that portion of the anvil

which is in line with the path of the ram, said pushing mechanism being connected with the feeding means to



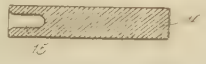
move therewith, the acting terminal portions of the pushing mechanism being mounted to yield in the direction of movement of the ram.

1,419,345. TICKET AND LABEL PRINTING MACHINE. DAVID C. WRIGHT and ENOCH W. CORNELL, Indianapolis, Ind. Filed Sept. 15, 1920. Serial No. 410,409. 6 Claims. (Cl. 101—292.)



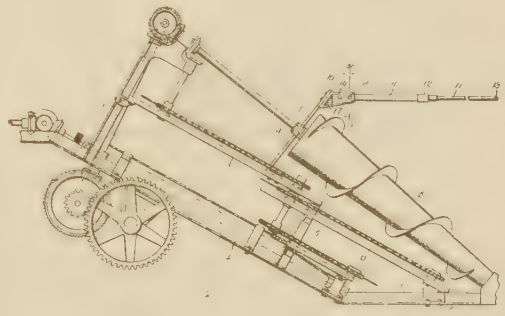
1. In a printing machine including type and an inking ribbon, means for moving a tape between the type and inking ribbon, a constantly driven means for moving the tape lengthwise, an impression forming head, means for moving said head into engagement with said inking ribbon for forming impressions on the tape, and a yieldingly mounted bar over which the tape passes adapted to be depressed for forming a slack in the tape whereby that portion of the tape receiving pressure from the head will remain stationary while the moving means for the tape continues to rotate.

1,419,346. MANUFACTURE OF RAILWAY DRAFT-GEAR YOKES. HARRY T. ANDERSON, Butler, Pa., assignor to Harry Vissering & Company, Chicago, Ill., a Corporation of Illinois. Filed June 18, 1919. Serial No. 305,033. 9 Claims. (Cl. 29—167.)



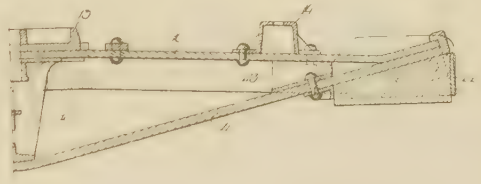
1. That improvement in the manufacture of yokes for railway draft-gear which consists in forging a pocket into one end of a solid block of metal which is adapted to receive a coupler, forging the metal at the other end of the block into a yoke back, forging the intermediate portion into a shank and forming a draft-gear opening in the intermediate portion of the block.

1,419,347. STALK-ARM ATTACHMENT FOR CORN-HARVESTING MACHINES. WILLIAM SEWARD BAIRD, Decatur, Ill., assignor to Baird Corn Husker Co., Champaign, Ill., a Corporation of South Dakota. Filed Mar. 20, 1918. Serial No. 223,553. 13 Claims. (Cl. 56—119.)



1. In a harvesting machine of the character described, the combination with pick up rolls and driving means therefor, in combination with means coextensive with said pick up rolls positioned above and between the rolls for engaging stalks and substantially prevent lateral movement of said engaged stalks at the top thereof.

1,419,348. CAR BOLSTER AND METHOD OF MAKING SAME. CARL E. BAUER, Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed May 28, 1920. Serial No. 384,852. 8 Claims. (Cl. 21—164.)



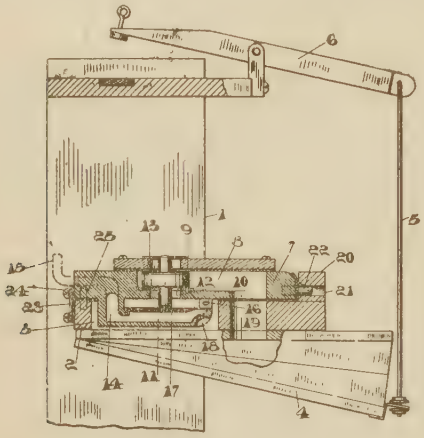
1. A car bolster including a tension member and a compression member, the latter being of channel section and the former in the form of a plate, the end of which lies within the channel, is lapped around the end thereof and is provided with laterally extending portions overlying the flanges of the compression member for increasing the strength of the connection.

1,419,349. PLAYER-PIANO ACTION. GEORGE BEDFORD, Toronto, Ontario, Canada. Filed Sept. 24, 1920. Serial No. 412,479. 6 Claims. (Cl. 84—53.)

1. In a player-piano action, the combination of an air trunk having a recess in one side; a pneumatic connected to the air trunk; a valve casing having a diaphragm chamber connected therewith and detachably secured to the air trunk with the diaphragm chamber received within the recess, said valve casing and diaphragm chamber being removable as a unit; and an air duct leading from the pneumatic, the valve casing having a passage leading from the valve chamber adapted to register with said air duct when the valve casing is in place.

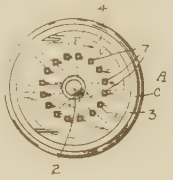
6. In a player-piano action, a valve casing having a valve chamber therein provided with alined valve seats

facing one another; a valve adapted to engage either seat and provided with a fixed stem; and a felt washer secured to the casing having an aperture therein through which



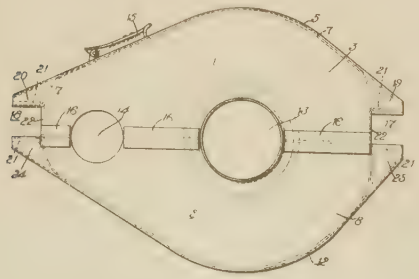
the valve stem passes sufficiently small to guide the valve stem and maintain the valve in alinement with the seats while permitting a sufficiently free passage of air.

1,419,350. ICE-RUT REMOVER FOR VEHICLES. LOUIS E. BEERS, Wilkinsburg, Pa. Filed Apr. 17, 1920. Serial No. 374,556. 4 Claims. (Cl. 301—44.)



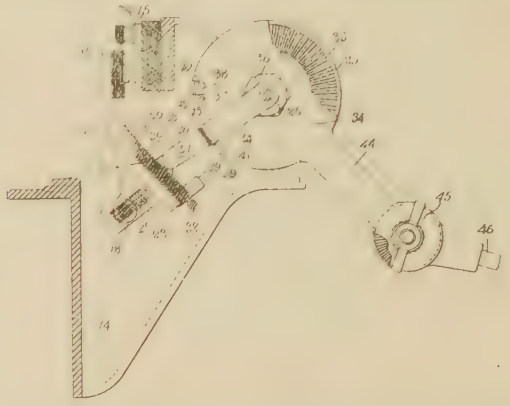
2. An ice cutter of the character described consisting of a metal plate having a substantially uninterrupted annular cutting edge, and means for mounting said plate on the outside of a vehicle wheel and spaced away therefrom, said plate being of less diameter than the effectual diameter of the wheel to prevent the perimeter of said plate contacting with the permanent road surface, for the purpose described.

1,419,351. GEAR CASE. CLAUDE BETHEL, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 14, 1920. Serial No. 373,782. 10 Claims. (Cl. 74—56.)



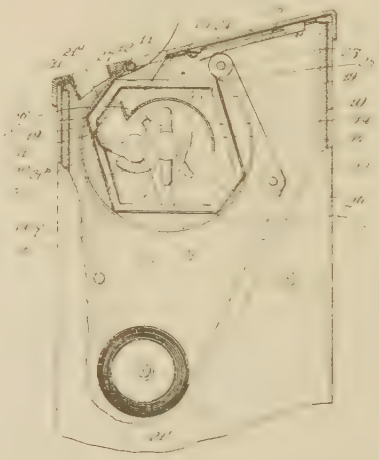
1. A gear-case comprising edge plates and side plates, the side plates each having an end projection the lower portion of which is bent inwardly to serve as an end closure.

1,419,352. FLOAT SWITCH. HARRY F. BOE, Dayton, Ohio, assignor to The Vaile-Kimes Company, Dayton, Ohio, a Corporation of Ohio. Filed June 20, 1916. Serial No. 104,815. 10 Claims. (Cl. 200—84.)



1. In a device of the character described, a quick acting switch, a lever for actuating said switch, a device controlled by the rise and fall of fluid and provided with spaced members rotarily mounted upon a common axis and having oppositely facing shoulders to alternately engage said lever to move the same back and forth, said members being relatively adjustable.

1,419,353. STAMP-VENDING MACHINE. EMERSON A. BOLEN, Morris, Ill., assignor to The Northwestern Corporation, Morris, Ill., a Corporation of Illinois. Filed Aug. 17, 1921. Serial No. 492,914. 2 Claims. (Cl. 211—33.)

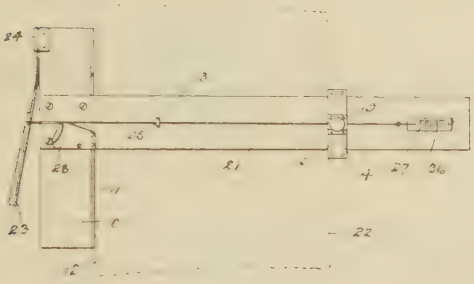


1. In a stamp dispensing machine, the combination of a hexagonal driver, means for rotating the same, and a fixed arcuate retaining wall partly encircling the driver and slightly spaced from the effective points of angles of the latter, said driver having the chords between its effective angles arranged to provide two diametrically opposed chords of single-stamp length and the intervening chords each of two-stamp length.

1,419,354. T-SQUARE. WILFRED L. BOON, North Attleboro, Mass. Filed July 19, 1920. Serial No. 397,289. 6 Claims. (Cl. 33—80.)

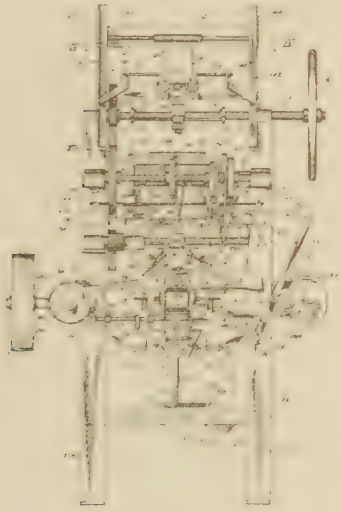
1. A T-square for drawing boards comprising a blade with a cross-head connected thereto at one end, a gripping jaw adjustably mounted on said blade, a spring-tension

lever on said head, a light spring at the opposite end of the blade, a connector extending from said lever to said light spring, and said jaw being adjustably connected to



said connector, whereby said lever spring overcomes the tension of said light spring to cause said jaw to cooperate with said head to grip the board between them.

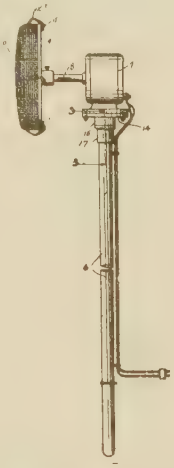
1,419,355. MACHINE FOR FORMING PAPER RECEPTACLES. CLARENCE J. BROWN and CLAUDE F. BROWN, Chicago, Ill., assignors, by mesne assignments, to Brown Paper Goods Company, Chicago, Ill., a Corporation of Illinois. Filed July 5, 1918. Serial No. 243,331. 17 Claims. (Cl. 93—36.)



1. In machines for forming paper receptacles, the combination of a supporting frame; means adapted to convey a blank from the top to the bottom thereof; means for applying glue to predetermined portions of said blank and means adapted thereafter to tape-tail the blank while in transit; means adapted appropriately to fold the blank; and means for operating said aforementioned means in proper co-operative relation.

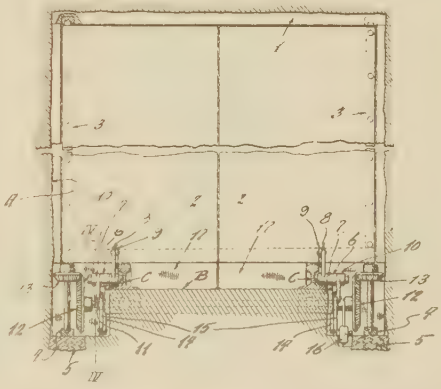
1,419,356. WINDOW-CLEANING DEVICE. WILLIAM H. A. BROWN, Chicago, Ill., assignor of one-half to Henry G. Clark and one-half to John H. Bentley, both of Chicago, Ill. Filed Mar. 10, 1921. Serial No. 451,341. 5 Claims. (Cl. 15—103.)

1. In a window cleaning device comprising a supporting member; an abrasive covering carried by said member; and means comprising claw shaped members carried by said supporting member for holding said covering on said member, said claw shaped members being yieldably held in operative engagement with said covering by the engage-



ment of one end of each of said claw shaped members with said support, substantially as described.

1,419,357. OPERATING MECHANISM FOR MINE DOORS. CHARLES E. CARTER, Gillespie, Ill. Filed Apr. 21, 1921. Serial No. 463,241. 2 Claims. (Cl. 246—305.)

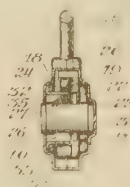


1. An automatically operated mine door comprising a door secured to a vertically supported shaft and adapted to extend across a track, and car operated means cooperating with said door comprising pivoted arms, the upper ends of which are adapted to extend above said track and into the path of a car on the track, a bar extending longitudinally of said track and pivotally connected to said upper ends of the pivoted arms at its ends, a rockable shaft, an arm secured to said rockable shaft, links connecting said arm on the rockable shaft to said pivoted arms, a bevel gear mounted on said rockable shaft, a second bevel gear mounted on the vertical door supporting shaft adapted to mesh with said first mentioned bevel gear, whereby the engagement of one of said pivoted arms by a car moving in either direction will actuate said car operated means to open the door in a direction away from said car and retain it in such position while such engagement continues, and means whereby said car operated means is returned to its normal position when said car and said car operated means are disengaged.

1,419,358. PADLOCK. EMIL A. CHRISTOPH, Chicago, Ill., assignor to King Lock Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 29, 1918. Serial No. 264,728. 7 Claims. (Cl. 70—105.)

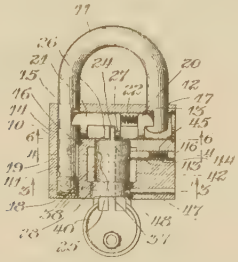
4. In a padlock, a casing composed of suitable plates having side portions and offset flanges adapted to abut to

provide a space therebetween, a shackle pivotally mounted in the casing, means for normally holding the shackle in an open position, a locking bolt for the shackle, a rotatable locking plug extending transversely of the sides of the casing, a housing for said plug projecting from one side of the casing and terminating short of the other and having



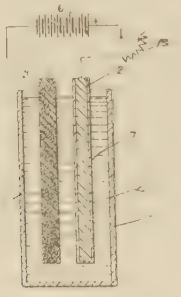
pockets therein, tumblers carried by the said locking plug adapted to seat in said pockets to lock the plug, a keyway in the plug for receiving a key to release the tumblers to permit rotation of the plug, and a projecting part carried by the plug and located at one side of the housing for engaging the locking bolt to release the shackle.

1,419,359. PADLOCK MECHANISM. EMIL A. CHRISTOPH, Chicago, Ill., assignor to King Lock Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 29, 1918. Serial No. 264,729. 2 Claims. (Cl. 70—108.)



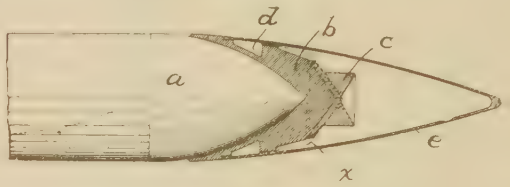
2. A tumbler supporting plug for a lock, said plug being made up of two semi-cylindrical portions, and a cap member for holding said semi-cylindrical portions together, said semi-cylindrical portions being provided with longitudinal and transverse grooves which when the two portions are placed together form respectively a key slot and a transverse opening for the reception of a plurality of tumbler plates.

1,419,360. ELECTROLYTIC LIGHT SOURCE. JOHN COULSON, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 3, 1917. Serial No. 200,042. 2 Claims. (Cl. 176—1.)



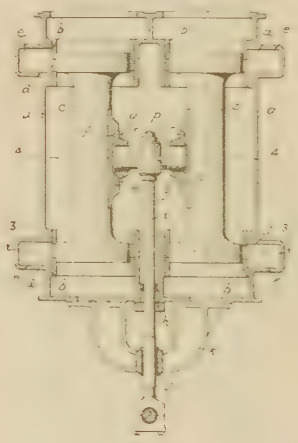
1. A light-producing device including a plurality of film-forming electrodes formed of an alloy comprising aluminum, manganese and copper, a suitable electrolyte surrounding the electrodes and a transparent container therefor.

1,419,361. ARMOR-PIERCING PROJECTILE. JOHN L. COX, Philadelphia, Pa. Filed Aug. 9, 1921. Serial No. 490,880. 1 Claim. (Cl. 102—28.)



An armor piercing projectile comprising a pointed body, a protective cap whose inner wall throughout its area contacts with the head of the projectile and completely encloses the larger part of the total area of such head, said cap being cut away on its outer face in front of its rear end and back of the extremity of the point of the projectile body, thereby permitting maximum weight and thickness of that part of the cap surrounding said point, and a windshield supported wholly by the cap and abutting against a shoulder thereon and completely covering said cut-away portion of the cap.

1,419,362. STEAM-ENGINE VALVE MECHANISM. EDWARD T. CUNLIFFE, Audubon, N. J., assignor to Sun Shipbuilding Company, Chester, Pa., a Corporation of Pennsylvania. Filed Mar. 19, 1920. Serial No. 367,171. 5 Claims. (Cl. 121—193.)



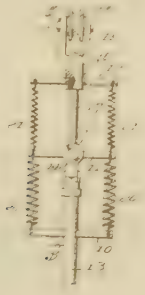
1. In a steam engine, a cylinder for a reciprocating piston, a valve casing at the side thereof, a steam chamber intermediate the ends of the casing, an exhaust chamber in each end of the casing, a steam and exhaust passage between each exhaust chamber and the steam chamber communicating with the piston cylinder, two valve cylinders in each end of the casing opening into the steam chamber and the exhaust chamber at that end and extending across the intermediate passage, there being ports through the walls of the valve cylinders opening into the interior of said cylinders and said passages, each of the valve cylinders in one end being in alignment with one of the valve cylinders in the other end, a valve having a cylindrical head at each end and an intermediate body mounted in each pair of valve cylinders in alignment with each other, said valves being in alignment with the piston cylinder, a removable bearing on each valve, a cross-head in the steam chamber connected to the bearings of both valves, and a connecting rod extending into the steam chamber connected to the cross head for reciprocating the valves.

1,419,363. AEROPLANE. ETHAN H. EARLE, Pomona, Calif., assignor of one-half to George R. E. Milligan, Los Angeles, Calif. Filed June 7, 1920. Serial No. 387,098. 1 Claim. (Cl. 244—15.)

In an aeroplane, the combination of a wing, propellers at opposite sides of the longitudinal axis of the aeroplane, the plane of rotation of the propellers being normal to the path of flight, means to rotate the propellers, means to turn the blades of one of the propellers about their longitudinal axes to positions the reverse of the blades of the other propeller to cause rotation of the wing in a horizontal plane as a helicopter, said wing having movable surfaces adjacent its ends, and means to adjust the movable surfaces to increase or diminish the angles of incidence of said surfaces while the wing is rotating to cause the aeroplane to rise or descend in circular flight.

1,419,364. [WITHDRAWN.]

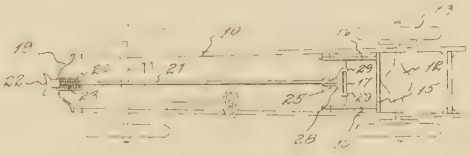
1,419,365. TROLLEY HARP. MARTIN P. ENYEART, Girard, Ohio. Filed Aug. 11, 1921. Serial No. 491,544. 3 Claims. (Cl. 191—60.2.)



1. A trolley harp having lower, intermediate and upper cross arms terminally connected in series by coiled springs for yieldingly maintaining the substantial parallelism thereof, the lower cross arm being rigid with the pole, the intermediate cross arm being mounted for rocking movement in the plane of the pole and the upper cross arm having a swivel mounting with its axis of movement in alignment with the pole, and the trolley wheel being mounted in a head movable with the upper cross arm.

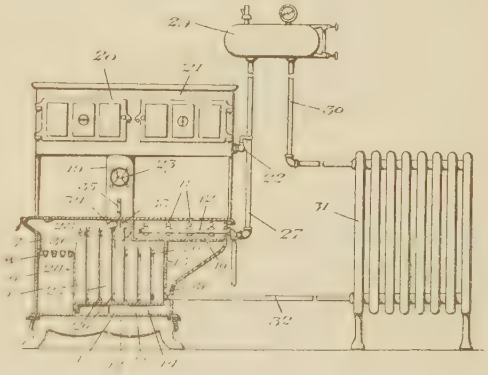
1,419,366. VEHICLE STOPPING DEVICE. WOJCIECH FIAL, Harvey, W. Va., assignor of one-half to Engelbert Nicolussi, Glendive, Mont. Filed May 25, 1921. Serial No. 472,503. 1 Claim. (Cl. 180—83.)

The combination with the frame of a self propelled vehicle having drive wheels near its rear end, of a buffer at the forward end of the frame legs pivoted to said frame slightly forward of and adjacently between the drive wheels, a bell-crank pivoted near said legs, a rod connecting the buffer with one arm of the bell-crank, and



a link connecting the opposite arm of the bell-crank to the legs in such a manner that when the buffer is engaged the legs will be lowered into contact with the surface traversed to elevate the drive wheels.

1,419,367. WATER-HEATING RANGE. WALTER T. FLING, Kansas City, Mo. Filed May 25, 1920. Serial No. 384,202. 1 Claim. (Cl. 126—5.)

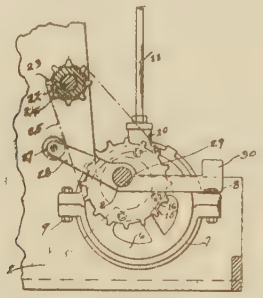


A stove comprising a casing having a fire box therein and a compartment communicating with said fire box for the flow of products of combustion through said compartment, a partition in the casing at that end of the compartment opposite to the fire box, a false bottom in the casing below said compartment providing a passage underneath said false bottom, said compartment having an outlet at the adjacent ends of said false bottom and partition diagonally opposite to the fire box and communicating with said passage, the casing having an opening at the upper portion of said compartment near the fire box, an outlet flue communicating with said passage and last named opening, a damper controlling the passage of the products of combustion through said last named opening, and a sectional water heater in said compartment having a water inlet near said outlet opening, the water heater having a section whose upper end portion forms a water back for the fire box and has a hot water outlet.

1,419,368. MECHANICAL MOVEMENT. GEORGE A. FULLIPS, Milwaukee, Wis. Filed May 14, 1921. Serial No. 469,606. 7 Claims. (Cl. 74—14.)

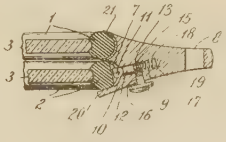
1. The combination with a rotatable shaft, of a disk eccentrically mounted thereon, a second disk eccentrically mounted upon the first, a reciprocatory member operatively connected to the second disk and adapted to receive

the combined effect of both eccentrics, and means for driving the second eccentric independently of the first at a



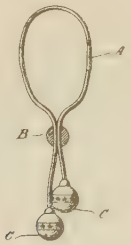
different rate of speed, the throw of the inner eccentric being smaller than the diameter of the shaft.

1,419,369. EYEGLASS-RELEASING DEVICE. WILLIAM GAUER, Newark, N. J., assignor to Frank Krementz Company, Newark, N. J., a Corporation of New Jersey. Filed July 23, 1921. Serial No. 487,006. 3 Claims. (Cl. 88—44.)



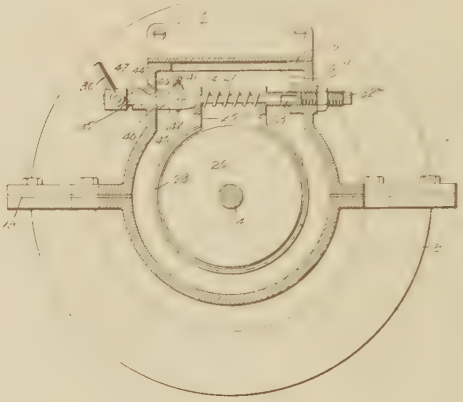
1. In releasing devices for eyeglasses of the folding Oxford or generally similar type, a spring catch having a cylindrical body adapted to reciprocate in the recess in the eyeglass handle and having a flat noncircular exposed catch end to engage the lens frame and having its other end threaded, and a catch operating button adapted to project from the handle and having a permanently connected stem and threaded socket in which the threaded end of the spring catch is removably and securely fastened.

1,419,370. BRACELET. ALEXANDRE GENAILLE, New York, N. Y., assignor to Cartier, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 27, 1920. Serial No. 361,777. 3 Claims. (Cl. 63—21.)



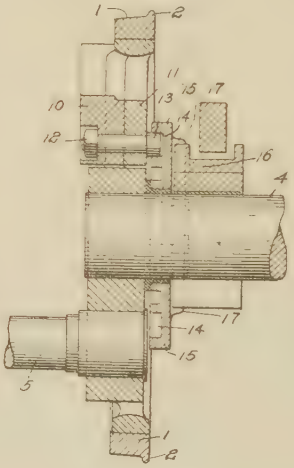
1. An article of jewelry consisting of a bracelet embodying a flexible member, a slide through which the flexible member is passed to form a portion of said member into a loop adapted to embrace the wrist of a wearer, said loop being maintained in conformity with the wrist by the slide, and a separate member associated with each end of the flexible member to preclude such ends from being withdrawn from the slide.

1,419,371. ATTACHMENT FOR PLANETARY TRANSMISSIONS. BERT C. GENTRY and GLENN R. HOFFMAN, St. Louis, Mo.; said Hoffman assignor to Herbert A. Deweez, St. Louis, Mo. Filed Jan. 31, 1921. Serial No. 441,441. 6 Claims. (Cl. 188—2.)



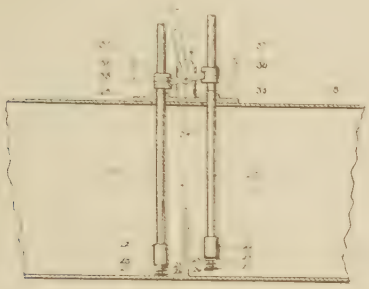
1. An attachment for planetary transmissions comprising a transmission case having an upper and a lower portion, a slow speed shaft mounted in the upper portion of the case, a brake band, a member carried by said shaft for actuating said brake band, and readily removable means for securing said member on said shaft, whereby said shaft may be readily removed from the casing without taking the casing apart.

1,419,372. MOVABLE COUNTERBALANCE. GEORGE H. GOODELL, St. Paul, Minn. Filed Dec. 31, 1920. Serial No. 434,344. 12 Claims. (Cl. 295—6.)



1. The combination with a wheel driven by reciprocating mechanism, of a movable weight actuated to change its position relative to the axis of the wheel in response to movement of the wheel, whereby to counterbalance the reciprocating mechanism.

1,419,373. FUEL-RESERVE-SUPPLY SYSTEM. CHARLES F. GREEN, Defiance, and HARRY W. LINDSEY, Jr., Toledo, Ohio, assignors to Industrial Research Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Nov. 18, 1918. Serial No. 262,995. 30 Claims. (Cl. 158—46.5.)



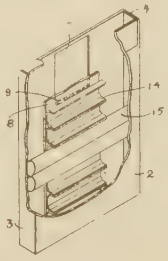
1. A device of the class described, comprising a plurality of liquid holding receptacles, a conduit extending into each of said receptacles, and means for lowering said conduits selectively.

1,419,374. MEASURING DEVICE. HARRY H. GUNKEL, Chicago, Ill. Filed June 24, 1921. Serial No. 480,150. 4 Claims. (Cl. 33—2.)

1. A measuring instrument of the kind described, comprising a crotch-engaging member cut inwardly at one end and a pair of spaced guides thereon, an extensible member slidable through said guides, and means on one of said guides for maintaining said extensible member at any point of its sliding movement relative to the crotch-engaging member.

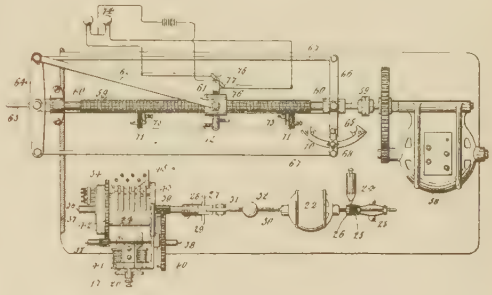
1,419,375. CIGARETTE BOX. GEORGE FREDERIC HALL, Providence, R. I. Filed Jan. 27, 1919. Serial No. 273,437. 13 Claims. (Cl. 206—41.)

1. In a cigarette box the combination of a container having enclosing walls, its internal dimensions from front to back approximating the diameter of and from side to side the length of a cigarette, adapted to enclose a single layer of cigarettes laid parallel to each other and to the ends of the box, an outlet adapted for deliverance of the cigarettes slidingly in seriated order, a finger slot in the front wall extending endwise of the box, a film covering and secured about said slot, fracture determining means spacing said film into sections of pre-determined size conforming in one dimension with the dimensional unit of lateral spacing of the laid cigarettes, the spaced sections equalling in number the contained cigarettes and each film section adapted to be detached, displaced and brought into contact with a cigarette through finger pressure applied by way of the slot in removing the sec-



tions one at a time slidingly and in seriated order, each with an accompanying cigarette, outwardly of said box through said outlet.

1,419,376. WIRELESS CONTROL APPARATUS. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Nov. 27, 1909, Serial No. 530,089. Renewed Nov. 6, 1915. Serial No. 60,165. 17 Claims. (Cl. 172—282.)



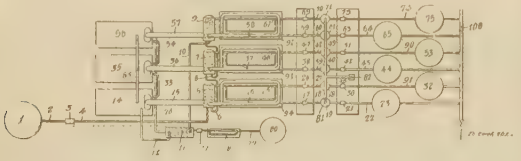
2. In a wireless control apparatus, the combination with a motor, of a rotatable controller, an automatically operated clutch between said motor and controller, electric driving mechanism having circuits through said controller, said controller being driven by said motor, and means for energizing said motor in response to radiant energy.

1,419,377. RADIODYNAMIC OCCULTING SYSTEM. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Aug. 1, 1913, Serial No. 782,416. Renewed Mar. 19, 1919. Serial No. 283,664. 4 Claims. (Cl. 177—352.)

1. A system for utilizing radiant energy, including in combination, a source of artificial light, occulting means

therefor, a fluid operated piston operatively connected to said occulting means, a second fluid operated piston for controlling the operation of the first piston, and means for controlling the operation of the second piston by radiant energy from a distance.

1,419,378. PROCESS FOR THE CONTINUOUS PRODUCTION OF LOW-BOILING-POINT HYDROCARBONS FROM PETROLEUM OILS. RICHARD W. HANNA, Richmond, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a Corporation of California. Filed Jan. 19, 1920. Serial No. 352,416. 9 Claims. (Cl. 196—25.)

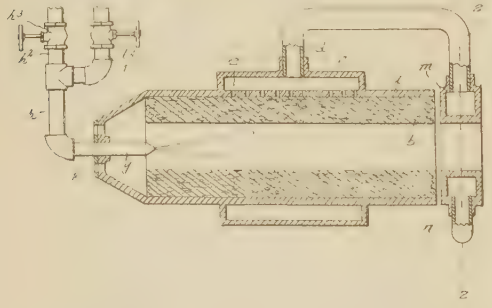


1. The art of cracking petroleum oil to produce a low boiling point distillate from a relatively higher boiling point fraction, which includes distilling an oil under a reduced pressure less than atmospheric whereby decomposition is substantially prevented, and then subjecting a relatively high boiling point fraction thus produced to a temperature and pressure sufficient to crack the same to produce a low boiling point distillate.

1,419,379. TRANSLUCENT MEDIUM FOR USE IN PHOTOGRAPHIC ARTS. FREDERICK W. HOCHSTETTER, Dayton, Ohio, assignor of one-half to W. I. Ohmer, Dayton, Ohio. Original application filed Nov. 10, 1919, Serial No. 336,898. This application filed May 21, 1921. Serial No. 471,524. 8 Claims. (Cl. 134—26.)

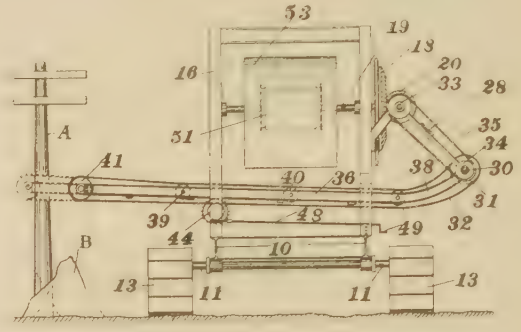
6. A composition of matter for treating paper to render the same translucent comprising a drying oil, bleached shellac, and absolute alcohol only.

1,419,380. FUEL-OIL BURNER. WILLIAM M. HOFFMAN, Buffalo, N. Y., assignor to General Fuel Apparatus Corporation, Buffalo, N. Y., a Corporation of Delaware. Original application filed June 7, 1920, Serial No. 387,003. Divided and this application filed Apr. 13, 1921. Serial No. 461,120½. 8 Claims. (Cl. 158—57.)



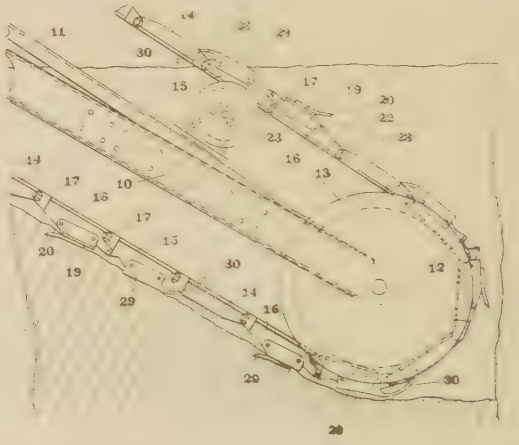
1. In a hydrocarbon burner, a combustion chamber in the form of a hollow porous refractory core, a jacketed casing for such core adapted so that fluid fuel therein contained may pass therefrom to the outer surface of the porous refractory core for percolation therethrough, a vapor jet-producing means positioned at one end of said core adapted to project a jet of vapor therethrough, means for supplying fuel to such jacketed portion of the casing, such means so adapted and so positioned with reference to the combustion chamber that the fluid fuel passing therethrough will be heated before it reaches the jacket.

1,419,381. TRENCH-DIGGING MACHINE. WALTER G. HUMPHREYS and OMAR R. HUMPHREYS, Omaha, Nebr. Filed Aug. 16, 1920. Serial No. 403,717. 3 Claims. (Cl. 198—117.)



1. In a machine of the character described, the combination of a framework mounted for movement, a transversely shifting conveying mechanism mounted in said framework and extending beyond the side thereof, said mechanism including beams curved at one end, supporting and drive means hingedly connected with the curved ends in said beams, and means for shifting said conveying mechanism back and forth.

1,419,382. BUCKET-CHAIN EXCAVATOR. WALTER G. HUMPHREYS and OMAR R. HUMPHREYS, Omaha, Nebr. Filed June 12, 1920, Serial No. 388,433. Renewed Apr. 8, 1922. Serial No. 550,789. 7 Claims. (Cl. 37—23.)

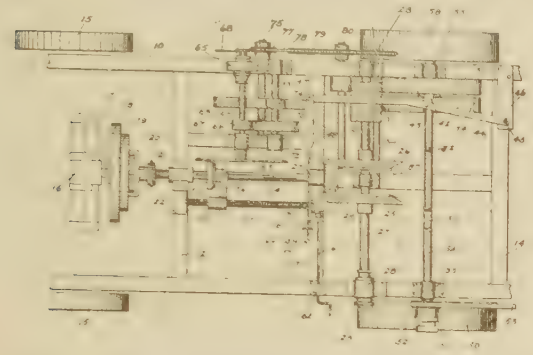


1. In an excavator, the combination of an endless chain having links therein, digging teeth carried by a link of the chain, a scoop carried by an adjacent link of the chain and means carried by said links and cooperating to maintain the links in alignment during operation of the excavator.

1,419,383. POWER-TRANSMISSION GEARING. WALTER G. HUMPHREYS and OMAR R. HUMPHREYS, Omaha, Nebr. Filed Dec. 17, 1920, Serial No. 431,363. Renewed Apr. 8, 1922. Serial No. 550,790. 4 Claims. (Cl. 74—26.)

3. In transmission mechanism, a driven shaft, a motor and two independent sets of transmission gears between the motor and the driven shaft, each of said sets of

gears being adapted to selectively drive the driven shaft in opposite directions and each of said sets of gears

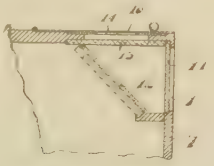


having means for selectively and independently disengaging the sets of gears from the driven shaft.

1,419,384. STORM WINDOW. FLOYD D. HUNT, Burlington, Vt. Filed Mar. 2, 1921. Serial No. 449,049. 1 Claim. (Cl. 20—55.)

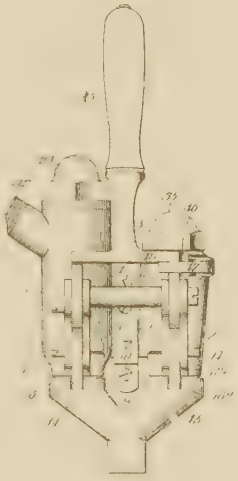
The combination of a storm sash having a headed projection on its inner side, and a tubular handle member provided circumferentially with a keyhole slot whereby it may be fitted over said projection and engage the shank of the same.

1,419,385. PHOTOMETER CHART. LEROY KELLOGG, Chicago, Ill. Filed June 9, 1919. Serial No. 302,711. 2 Claims. (Cl. 88—23.)



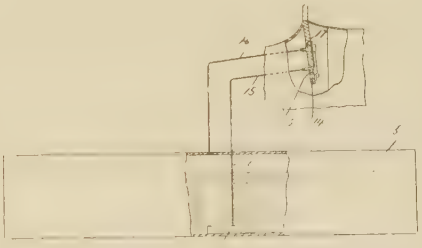
1. In combination with a camera object finder having a ground glass; a chart divided into a number of sectors, each of said sectors bearing graduated colors and a central aperture formed in said chart affording means for direct comparison of said graduated colors with a shadow of an object present in the said object finder, substantially as described.

1,419,386. COMBINATION FAUCET. HENRY D. KELLY, Kansas City, Mo. Filed Nov. 29, 1918. Serial No. 264,538. 5 Claims. (Cl. 221—114.)



1. The combination of a pair of faucets having supply ports, yieldingly closed valves between the respective supply ports and discharge ends of the faucets, a lever for opening the valves, means for closing communication between one only of the valves and the supply port therefor before the opening of said valve is effected, and means for locking both valves open and the communication-closing means in closed position.

1,419,387. DEPTH-INDICATING DEVICE. HORACE W. KING, Ann Arbor, Mich. Filed May 17, 1919. Serial No. 297,807. 2 Claims. (Cl. 73—54.)

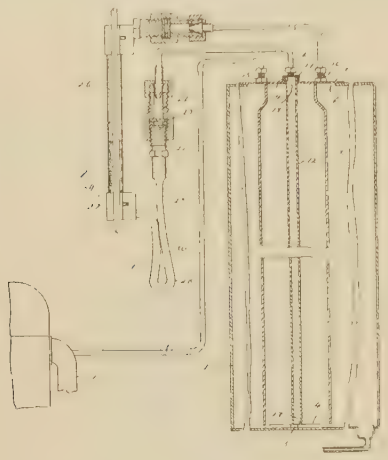


1. In a device for indicating the depth of a liquid, the combination with a receptacle within said liquid provided with two compartments in communication with each other near the bottom of said receptacle, said compartments containing a non-volatile liquid non-miscible with and of greater density than the liquid being measured, one of the compartments provided with an opening above the level of the non-volatile liquid therein for communicating with the liquid being measured, and the other of the compartments forming an air chamber, of a pressure gage, and a pipe connection between said gage and air chamber.

1,419,388. DEPTH-INDICATING DEVICE. HORACE W. KING, Ann Arbor, Mich. Filed Aug. 22, 1919. Serial No. 319,076. 14 Claims. (Cl. 73—54.)

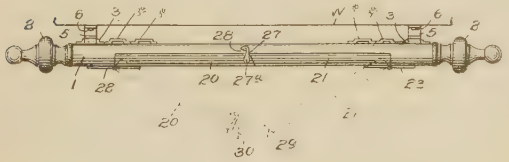
1. In a depth indicating device for liquids, the combination with a tank containing liquid, of a tube communicating with the air outside said tank and extending into and communicating with the liquid in said tank,

of means for producing a vacuum in said tank sufficient to draw air into said tube and displace the liquid down to



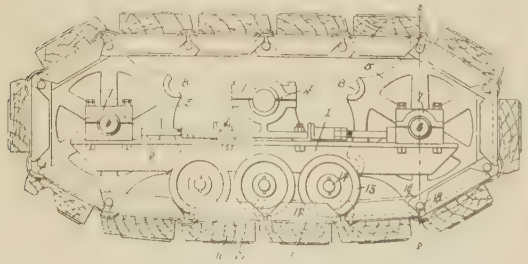
the point of communication of the tube with the liquid, and a pressure indicator connected with said tank.

1,419,389. CURTAIN ROD. WILHELMINE KRESS, Pittsburgh, Pa. Filed Mar. 23, 1921. Serial No. 454,681. 4 Claims. (Cl. 156—25.)



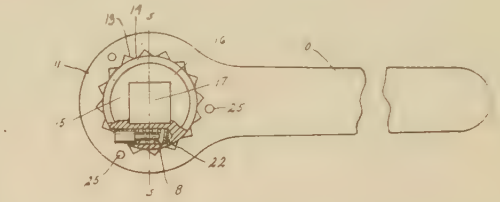
3. In a curtain pole construction, a hollow rod, the front of the rod being formed by two separate members hinged at their outer ends to the rod body and having channels in their inner faces, the rod body having a cooperating channel in its front adjacent to the hinged members, hooks attached to the rod body and housed in said channels, and a single fastening means to fasten the hinged members to the rod body to enclose the said hooks and to clamp a curtain suspended by the said hooks at both sides thereof.

1,419,390. APRON WHEEL. LEO A. KRUPP, Findlay, Ohio, assignor of one-half to The Buckeye Traction Ditcher Company, Findlay, Ohio, a Corporation of Ohio. Filed Dec. 3, 1920. Serial No. 428,043. 1 Claim. (Cl. 305—9.)



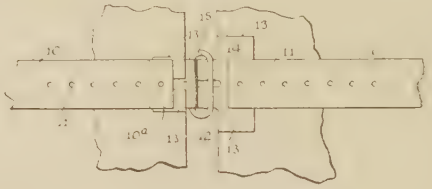
An apron wheel comprising a frame having a central bearing, a set of pressure rolls carried by the frame at each side thereof and intermediate its ends, a sprocket-wheel carried by the frame at each end, an endless tread belt connecting the sprocket-wheels and guided thereby and by the pressure rolls, said belt comprising a plurality of successively arranged tread members, a plate secured to the inner side of each tread member and having a curved extension at one end lapping a curved end portion of a plate of an adjoining tread member, a pair of transversely spaced chain link strips of angle iron fixed to the inner side of each plate, adjacent the longitudinal center line of a tread member and extending lengthwise of the tread member, means pivotally connecting the adjacent ends of the link strips of adjoining tread members, an angle iron track member secured to each plate at opposite sides of the chain link strips with one flange of each track member forming a track section for the pressure rolls and with the other flange of each track member projecting inward from the plate at the outer edge portion of the track member to form guard flange.

1,419,391. WRENCH. NILS G. LARSON, Attleboro, Mass. Filed Feb. 19, 1920. Serial No. 360,016. 1 Claim. (Cl. 81—60.)



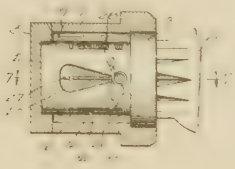
A ratchet wrench comprising a handle having a head portion with an annular opening through it provided with inwardly-projecting teeth with flat top bearing ends, a hub member rotatably mounted in said opening receiving a working bearing on the flattened portion of said teeth and having laterally-extending bearing hub portions on its opposite faces and said members having a cylindrical peripheral bore whose axis described the chord of an arc, and a spring-pressed pawl having a substantially cylindrical body portion endways slidable in said bore, said pawl having a flattened tooth-engaging surface and its body being supported by the walls of its bore against a laterally crushing working strain, and bearing plates fixedly secured to both sides of said head-portion fitted to engage and assist in supporting said bearing hub portions in operative position in said head.

1,419,392. HOOP FASTENING. GEORGE A. LE FEVRE, Richmond Hill, N. Y., and HUBERT HUTCHINSON, Newark, N. J., assignors to Paxflat Barrel & Crate Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 2, 1921. Serial No. 458,038. 4 Claims. (Cl. 24—23.)



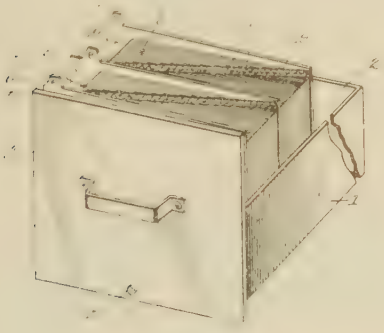
2. A hoop fastening comprising a metallic hoop having an open link secured to one end thereof, a clip secured to one end portion of the hoop behind the link and projecting beyond the link in the direction of the length of the hoop, said clip having projecting arms on opposite edges whereby the free end of the hoop may be drawn through the link, then doubled back upon itself, the arms of the clip bent over upon the doubled portion of the hoop, and the final free end of the hoop bent back upon the aforesaid bent arms.

1,419,393. LOCK. RAMON J. LOZON, Chicago, Ill., assignor to King Lock Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 11, 1920. Serial No. 357,766. 1 Claim. (Cl. 70—46.)



In a key-controlled lock, the combination of a suitable casing, a cylindrical barrel rotatably arranged therein, a plurality of tumbler plates carried by and transversely movable through said barrel into engagement with the casing upon the withdrawal of the key, whereby the barrel will be locked against rotation, said tumbler plates being provided with keyways therethrough of varied sizes, and interengaging means between the casing and the plates whereby the plates will be locked against movement upon a simultaneous lengthwise movement of the plates and rotation of the barrel, comprising arcuate, circumferentially extending shoulders on the plates and co-operating overhanging, arcuate lugs on the casing for positively engaging the plates at said shoulders, and spring means for moving a portion of said tumbler plates into operative engagement with the casing independently of the key, the others of said tumbler plates being gravity controlled, whereby the withdrawal of the key will move the tumbler plates comprising said portion in a direction opposite to that of the casing engaging movement of the remaining tumbler plates.

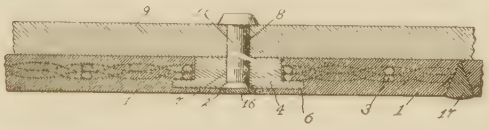
1,419,394. FOLLOW-UP FILING SYSTEM. STILLMAN W. MCKEE, Los Angeles, Calif. Filed July 17, 1919. Serial No. 311,585. 7 Claims. (Cl. 129—16.5.)



4. In a follow-up filing system, a holder, and series of guides mounted in the holder, the guides of one series having colored portions and the guides of the other series having sight openings through which said colored portions are exposed to view.

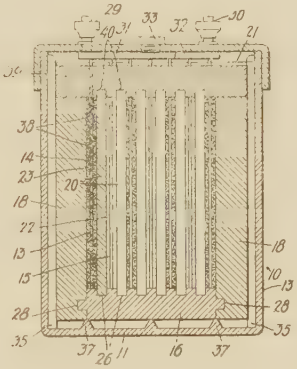
5. In a follow-up filing system, a holder, a series of main guides, and a series of subguides behind each main guide, the main guides having different index characters of one notation and the subguides of each series having different index characters of another notation, the upper portions of some of the guides being substantially narrower than the inside width of the holder so that a space is formed at one side of the holder when the narrower guides are assembled.

1,419,395. REENFORCED METALLIC LINING. JOHN A. MACKENZIE, Alameda, Calif. Filed Mar. 6, 1920. Serial No. 364,326. 4 Claims. (Cl. 29—181.)



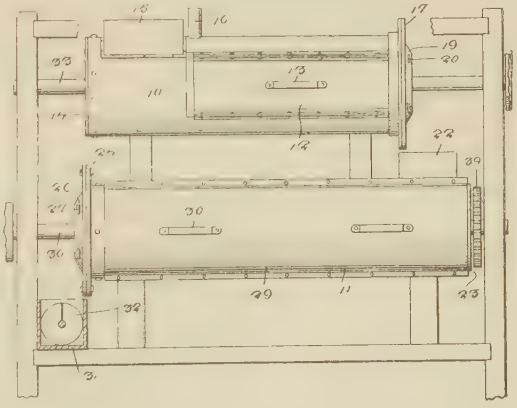
1. A reenforced metallic lining comprising a sheet of lead; a metallic reticulum imbedded within the lead; and washers mounted within the interstices of the reticulum and within the lead and flush with one side thereof to detachably connect said reticulum and lead to a surface.

1,419,396. STORAGE BATTERY. FREDERICK G. MANWARING, Campgaw, N. J. Filed May 25, 1920. Serial No. 384,188. 19 Claims. (Cl. 204—29.)



1. The combination of an electrolyte tank, stone partitions or separators dividing it into compartments, said stone partitions having an open cellular structure for the rapid circulation of electrolyte therethrough, and frames inserted one in each compartment and provided with active material.

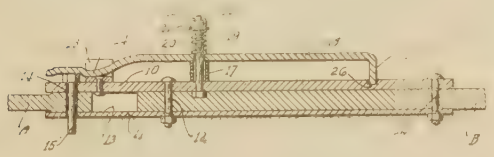
1,419,397. FEED-MIXING MACHINE. WARREN J. MARSH, Seattle, Wash. Filed Mar. 28, 1921. Serial No. 456,433. 3 Claims. (Cl. 99—2.)



3. A mixing machine comprising a casing provided at one end with an inlet hopper and an inlet pipe, said end of the casing being closed, a head secured upon the other end of the casing and provided with an opening, a plate

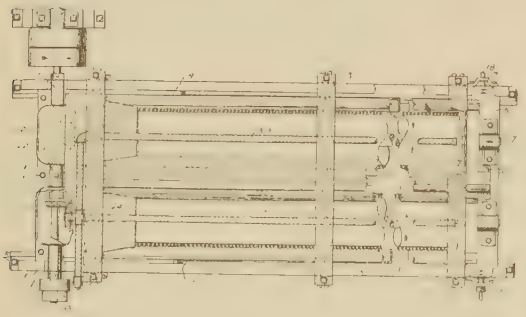
slidably associated with said head whereby to partially cover said opening, a shaft rotatable within said casing, and a plurality of mixing blades carried by said shaft, the blades at the end of the casing beneath the hopper being formed double and the blades toward the other end of the casing being formed single, said last named blades being arranged spirally upon the shaft.

1,419,398. COUPLING DEVICE FOR TRAILERS. MELL MASON, Exeter, Calif. Filed Sept. 24, 1921. Serial No. 502,927. 2 Claims. (Cl. 213—67.)



1. Retaining means for a coupling bolt comprising a trigger bar pivoted intermediate its ends and having one end engageable over the top of the coupling bolt, spring means urging the trigger bar into engagement with the bolt, a coupling element carrying the trigger bar, the associated coupling member being formed with a recess and the trigger bar being formed with a down turned end engageable within said recess for preventing swinging of the trigger bar.

1,419,399. WASHING APPARATUS. EDWARD N. MAULL, Orlando, Fla., assignor to Skinner Machinery Company, Dunedin, Fla., a Corporation of Florida. Filed Feb. 1, 1922. Serial No. 533,263. 9 Claims. (Cl. 146—14.)

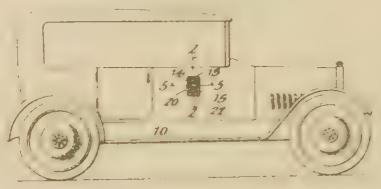


2. A fruit washing apparatus comprising a rotatably mounted brush, a pair of members extending longitudinally of the surface thereof and each forming therewith a fruit runway, one disposed on each side of the axis of rotation of the brush, means for rotating the brush, and means for operating said members transversely over the surface of said brush.

1,419,400. PLANE IRON. NEWTON D. MERWIN, Higganum, Conn., assignor of one-half to Philip W. Porter, Higganum, Conn. Filed May 20, 1921. Serial No. 471,152. 3 Claims. (Cl. 145—17.)

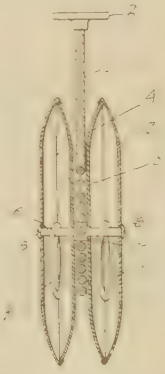
3. An iron of the class herein described formed with a dovetailed depression extending continuously transversely along one face thereof somewhat rearwardly of its advance end, said iron fitted with a cutting-blade having a dovetailed rib extending transversely along one face thereof somewhat rearwardly of its cutting-edge; a cap-plate superimposed on said iron and bearing at its advance end on the cutting-blade thereunder; and a lock-screw, said lock-screw projecting through both the cap-plate and said iron and having a threaded engagement with the latter, and adapted, when turned duly homeward, to draw and hold the cap-plate into clamping engagement with the cutting-blade thereunder, said rib having an endwise sliding fit only within the depression aforenamed.

1,419,401. THEFT DETECTOR FOR AUTOMOBILES. JOSEPH J. MICHALSKI, Buffalo, N. Y. Filed June 22, 1921. Serial No. 479,630. 10 Claims. (Cl. 40—15.)



4. A theft-detector of the character described, comprising a base adapted to be secured to a vehicle and having a characteristic ground on its face, a movable transparent part extending over the ground of said base, a detecting member of a different characteristic nature arranged between said part and said base and normally covering a portion thereof, and means for locking the movable part to the base.

1,419,402. WHIRLIGIG TOY. GEORGE W. MOSHER, Newport, Ky. Filed Feb. 21, 1921. Serial No. 446,723. 3 Claims. (Cl. 46—14.)

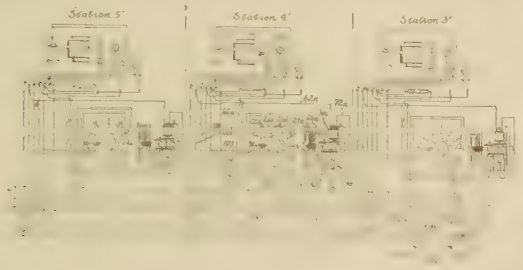


1. In a device of the character described, a pair of hollow disks, having their inner faces of a flat conformation, means for securing said disks together, and an operating cord secured at the axial point of said disks for the purpose described with means mounted loosely on the spindle within the disks to serve as a noise producer.

1,419,403. LOCKOUT MECHANISM FOR INTERCOMMUNICATING TELEPHONE SYSTEMS. THEODORE H. NELSON, Chicago, Ill. Filed Oct. 21, 1918. Serial No. 259,019. 23 Claims. (Cl. 179—39.)

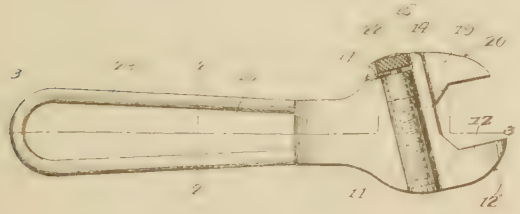
1. In an intercommunicating telephone system, the combination of stations, each equipped with a telephone set, a switch hook and line connecting mechanism, lines for connecting said stations as desired, one wire of each line being free from electrical potential when not in use, a source of current, and contacts operated by the switch hook at each station for connecting said wire of the corresponding line with one terminal of said source for the busy condition of said switch hook, said mechanism comprising contacts for said lines, electromagnetic devices connected with the other terminal of said source and lock-out contacts actu-

ated by initial movement of said mechanism in attempting to connect with a busy line, for connecting said wire of



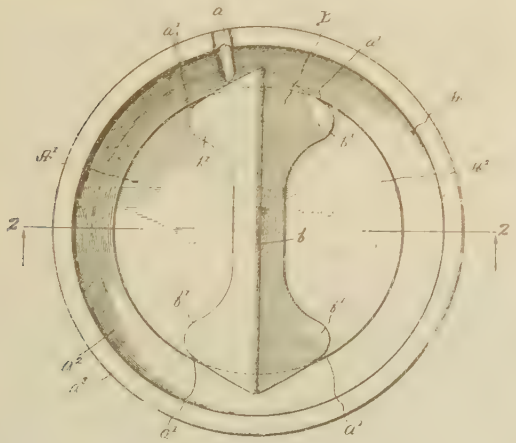
said line with the other terminal of said devices to actuate said devices to block completing the line connecting movement of said mechanism.

1,419,404. WRENCH. CHARLES A. OLSON, Jamestown, N. Y. Filed Apr. 29, 1921. Serial No. 465,432. 1 Claim. (Cl. 81—165.)



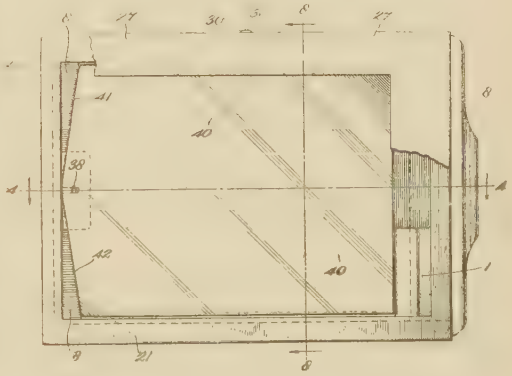
A wrench body comprising a flat metal portion including a shank and a head, the outer end of the head being oblique to the transverse axis of the body, a pair of plates secured on opposite sides of the head and each having an outwardly bowed rib extending transversely thereof and in parallel relation to the oblique end of the head, a portion of the outer end of the head extending longitudinally beyond the oblique face, each of the said plates having an extension corresponding to the extension of the body and being secured to opposite sides thereof, and a semi-tubular strip secured to the marginal edges of the shank of the body and around the outer end, the ends of the strip resting against the side plates.

1,419,405. GOLD PAN. EDWARD O. C. ORD, Berkeley, Calif. Filed July 7, 1921. Serial No. 483,076. 8 Claims. (Cl. 83—82.)



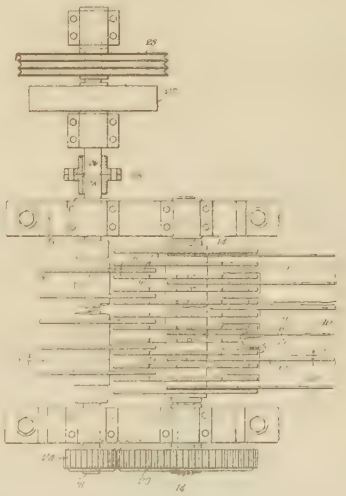
1. A miner's gold pan provided with a rib extending transversely of the pan and separating the same into two oppositely disposed chambers, the said rib being substantially in the form of a flattened wedge having its ends flared outwards to form concaved ears, substantially as described.

1,419,406. MAGAZINE FILM AND PLATE HOLDER FOR CAMERAS. WALTER PACK, Takoma Park, Md., assignor to Charles A. Rogers, Hartford, Conn. Filed Jan. 29, 1921. Serial No. 441,019. 12 Claims. (Cl. 95—72.)



1. In a sensitized element holder for cameras the combination of a magazine frame member; slidable means associated with said frame adapted to form a light tight magazine; means adapted to receive and hold a sensitized element outside said magazine; and means for transferring said element from said holding means to said magazine, substantially as described.

1,419,407. COAL BREAKER. FRANK PARDEE, Hazleton, Pa. Filed Mar. 1, 1919. Serial No. 280,025. 11 Claims. (Cl. 83—52.)

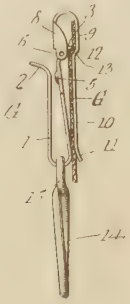


2. A coal breaker including a rotary lump supporting anvil comprising a pair of adjacent discs spaced apart to form an opening which is spanned by such lumps and means for striking a hammer blow upon a lump of coal which spans said discs to break said lump.

1,419,408. KEY RING AND HOLDER. LOUIS EDWARD POLHEMUS, Miami, Ariz. Filed July 12, 1921. Serial No. 484,180. 4 Claims. (Cl. 24—3.)

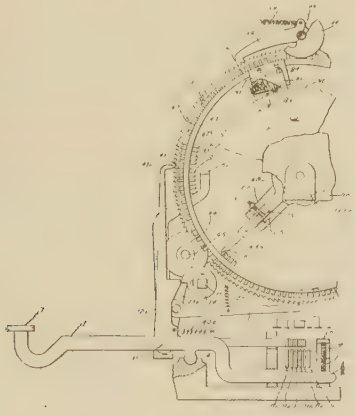
1. The combination with a resilient loop having an outturned toothed jaw at one end, of a lever having a hooked

end pivotally connected to the side portions of the jaw, a transverse shoulder upon said lever for momentary sliding



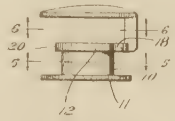
engagement with the toothed end of the jaw during the movement of the lever to open or closed position relative to the loop, said loop being adapted to hold a key ring.

1,419,409. SYSTEM OF TELEGRAPH DISTRIBUTION. LOUIS M. POTTS, Baltimore, Md., assignor, by mesne assignments, to American Telephone and Telegraph Company, New York, N. Y., a Corporation of New York. Filed Feb. 5, 1920. Serial No. 356,513. 12 Claims. (Cl. 178—17.5.)



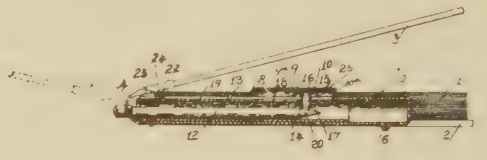
1. In a telegraph transmitter, a reciprocating support, a plurality of switch control elements mounted on said support, and permutation elements selectively movable into the paths of respective ones of said ocntrol elements to cause a displacement thereof relative to said support.

1,419,410. CORD-FASTENING HOOK. WILLIAM L. M. ROBIDOUX, Pawtucket, R. I. Filed Apr. 6, 1922. Serial No. 550,108. 2 Claims. (Cl. 24—146.)



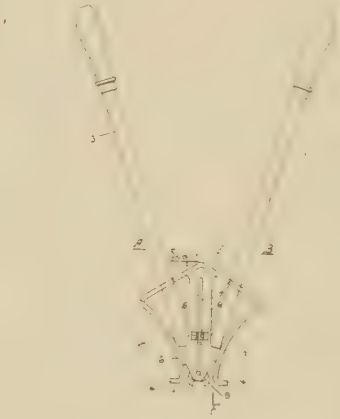
1. A cord-fastening hook comprising a shank having a base-flange, a guide-flange on said shank spaced from said base-flange substantially one diameter of the cord and having a portion extending beyond the periphery of said shank less than one diameter of the cord, and a head connected to and spaced from said guide flange substantially one diameter of the cord whereby the drawing of a second turn of the cord about said shank forces the first turn to ride up over the guide-flange and across the second turn to automatically bind the second turn at the point of crossing.

1,419,411. PENCIL-OPERATED LOCK FOR BOOK COVERS. JOHN C. F. SCHAFER, Mount Pulaski, Ill. Filed July 30, 1917. Serial No. 183,641. 9 Claims. (Cl. 281—30.)



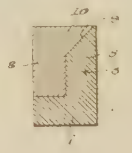
1. In an appliance of the class described, the combination of a basal structure comprising a stationary member and a movable member; a casing pivoted on said stationary member; a carrier pivoted on said movable member and sliding in said casing; a latch on the carrier controlling the sliding of the carrier; and an instrument slidable inwardly in the carrier to operate the latch.

1,419,412. NAIL PULLER. ALBERT SCHREM, Giengen, Germany. Filed Sept. 3, 1921. Serial No. 498,386. 5 Claims. (Cl. 254—23.)



1. An improved nail puller comprising in combination pincers, a box-shaped supporting frame in which said pincers are located, a straight guide for the arms of said pincers in the supporting frame, two hand levers hingedly fixed upon the arms of said pincers and lateral curved guiding surfaces of said support upon which the said hand levers roll when they are being moved.

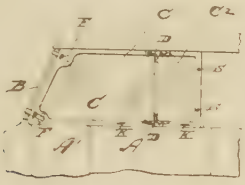
1,419,413. PISTON RING. FRED GABRIEL SCOZZAFAVA, Gouverneur, N. Y. Filed Jan. 19, 1921. Serial No. 438,383. 2 Claims. (Cl. 74—109.)



1. A piston ring comprising inner and outer cooperating rings, said inner ring including a base extending entirely across the width of the piston ring, and an upstanding portion having its upper edge bevelled, a lateral extension on said outer ring and having its under surface bevelled for facial engagement with the bevelled upper edge of the inner section, the upper edge of said outer section extending substantially entirely across the width of the ring, said inner and outer rings being split, the facing ends of the outer ring being bevelled, a radially extending pin carried by said inner ring, said outer ring

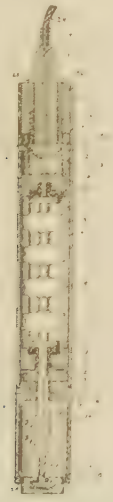
provided with a recess extending inwardly from one of its bevelled ends at the lower edge thereof, and being adapted to receive said radial pin therein to prevent circumferential relative movement of the inner and outer rings.

1,419,414. WINDSHIELD. SALVATORE A. SENA, Detroit, Mich. Filed Jan. 26, 1920. Serial No. 353,966. 4 Claims. (Cl. 296—84.)



2. The combination with a windshield and its supporting standards, of a pair of sash frames respectively hinged to the said standards, means for yieldingly securing the sash frames when adjusted, a pair of auxiliary sash frames, hinge-links connecting the auxiliary sash frames with said first named sash frames, whereby the auxiliary frames may be shifted bodily and spaced from the first named frames on either side thereof to admit of the circulation of air between the rear of the first mentioned frames and the front of the auxiliary frames for purposes of ventilation, means of securing said frames when adjusted and means for regulating the space between the adjacent edges of the main and auxiliary frames.

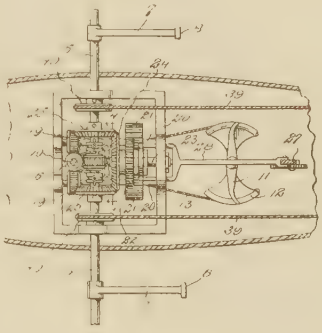
1,419,415. ELECTRIC DRILLING TOOL. ROBERT C. SHARP, Youngstown, Ohio, assignor of one-fourth to Charles A. Harpman, Youngstown, Ohio. Filed June 3, 1921. Serial No. 474,777. 4 Claims. (Cl. 255—4.)



1. In a device of the class described, the combination of a shell, a drill threaded to the lower end of same so that when the driving shaft rotates the drill, the drill will unscrew from the lower end of said shell, substantially as described for the purpose set forth.

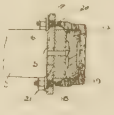
1,419,416. AIRPLANE CONTROL. ARTHUR WM. SHIRL, Milwaukee, Wis. Filed Oct. 24, 1921. Serial No. 509,802. 4 Claims. (Cl. 244—29.)

1. In an airship, a plane at each side thereof supported to have movement about a horizontal axis, manually operated means for imparting movement to the planes, manually operated means for causing such action to either move the planes simultaneously in the same direction or



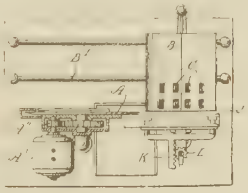
in reverse directions, a stabilizer at each side of the ship and means for connecting the same with a plane so that the stabilizer will move with the plane.

1,419,417. VEHICLE BUMPER. LOUIS M. SINGER, Toronto, Ontario, Canada. Filed Feb. 7, 1921. Serial No. 443,097. 1 Claim. (Cl. 293—55.)



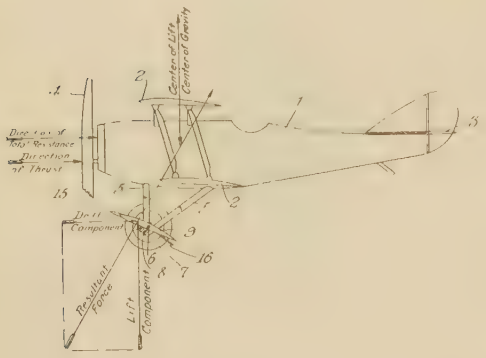
A vehicle bumper comprising brackets adapted for securing to the vehicle frame and projecting forwardly, said brackets respectively comprising straps set on edge and having end portions turned inwardly at right angles forming vertical walls adapted for engagement by a bumper bar, plates transversely arranged in relation to said turned portions respectively and projecting past the side edges thereof in pierced extensions, and clamps extending through the openings in said plates and securing said bumper bar to said turned portions of said brackets.

1,419,418. SLICING MACHINE. RALPH E. SLAYTON, New York, N. Y. Filed Apr. 30, 1921. Serial No. 465,624. 8 Claims. (Cl. 17—24.)



1. A slicing machine combining a knife, a tray to regulate the thickness of the slices and mechanically driven means to press the object against the tray during the cutting operation.

1,419,419. AEROPLANE CONTROL. CHESTER A. SNOW, Jr., Washington, D. C. Filed Oct. 13, 1921. Serial No. 507,408. 13 Claims. (Cl. 244—2.)



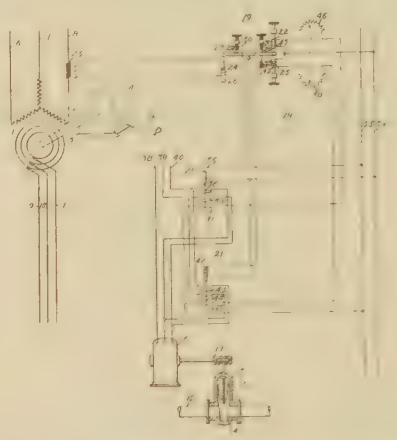
1. In an aeroplane a manually, angularly adjustable streamline running gear axle.

1,419,420. BALL-BEARING HANGER. GUSTAVE IRVIN SNYDER, Medix Run, Pa. Filed June 15, 1921. Serial No. 477,818. 2 Claims. (Cl. 248—64.)

1. A hanger of the character described comprising a stationary hook member, the hook member being enlarged and provided with a socket, the side walls of said socket having registered recesses, a movable hook member, one end of said hook member being formed into a yoke, a shaft carried by the yoke, said shaft having a rocker member formed at its intermediate portion, said rocker member being adapted to extend into and engage the walls of the socket to support the shaft in spaced relation to the walls of the socket.

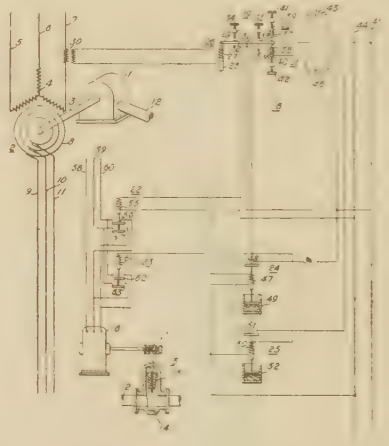
1,419,421. ANTIHUNTING REGULATOR SYSTEM. STEPHEN A. STAEGE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 9, 1919. Serial No. 288,712. 14 Claims. (Cl. 171—119.)

1. In a regulator system, a motor, two switches for controlling said motor, a contact-making instrument for controlling the operation of said switches, means comprising two electromagnets controlled by said switches for opposing the operation of the contact-making instrument



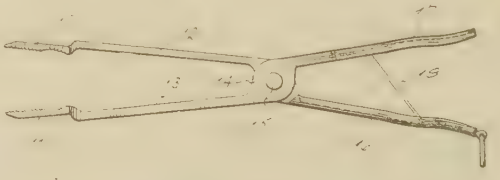
to prevent hunting action, and means for adjusting each of said magnets.

1,419,422. ANTIHUNTING REGULATOR SYSTEM. STEPHEN A. STAEGE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 18, 1919. Serial No. 291,083. 10 Claims. (Cl. 171—312.)



1. In a regulator, a contact-making instrument, two electromagnets operated at predetermined times for opposing the action of said instrument, and means, comprising two slow-acting relays controlled by the contact-making instrument, for selectively operating said electromagnets to prevent hunting action by the regulator.

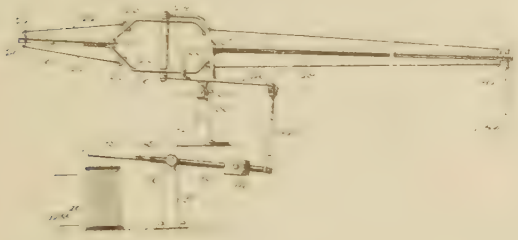
1,419,423. UTENSIL. MACIEJ SZYMKIEWICZ, Jersey City, N. J. Filed July 28, 1921. Serial No. 488,142. 3 Claims. (Cl. 294—43.)



1. A device of the class described comprising, a pair of levers pivoted together at one end, jaw members at the

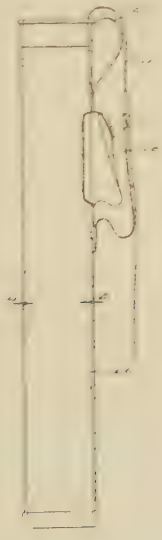
opposite end of each lever, handles for closing the jaw members, spring means for urging the jaw members apart and means associated therewith for holding the jaw members closed.

1,419,424. ELECTRICAL-CONTROL RAILWAY GATE. JAMES HODGE TAYLOR and ELMER FRANCIS LA FRAY, Detroit, Mich. Filed May 11, 1921. Serial No. 468,532. 5 Claims. (Cl. 39—7.)



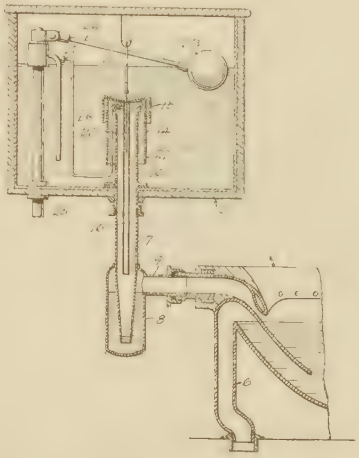
1. A railway gate having an upright fulcrumed intermediate its ends, a gate supporting stand, a frame pivoted intermediate its ends upon the stand and having a U-shaped portion at one side of its pivot, the extensions of which have bearings for the upper and lower portions of the gate fulcrum, a rock shaft having an outstanding arm movably connected to the opposite ends of said frame, electrical controlling connections including an electromagnet, a lever on the rock shaft one end of which forms an armature for said electromagnet, and an adjustable weight mounted on the other end of the lever as and for the purpose described.

1,419,425. BAG. JOSEPH TERR, Cuyahoga Falls, Ohio, assignor to The Marathon Tire & Rubber Company, Cuyahoga Falls, Ohio, a Corporation of Ohio. Filed Aug. 22, 1921. Serial No. 494,332. 3 Claims. (Cl. 150—1.5.)



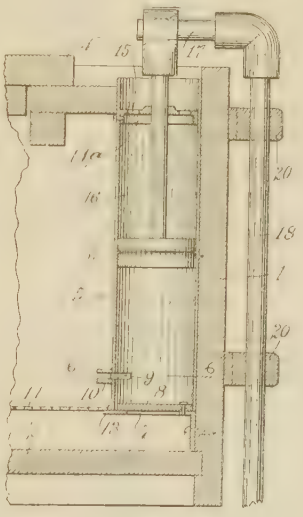
3. A golf bag or the like comprising a body reinforced interiorly by a fabric lining with collars at top and bottom, a reinforced bottom, opposite vertical stays extending the length of the bag and a top bead, all formed and molded as a one-piece unit and vulcanized.

1,419,426. FLUSHING DEVICE FOR CLOSETS. EDWARD THIRY, Pasadena, Calif. Filed Aug. 10, 1921. Serial No. 491,121. 6 Claims. (Cl. 4—5.)



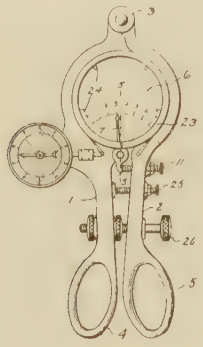
1. In combination with a flush tank, a discharge tube extending upwardly into said tank, said tube being open at the top thereof, a water trap connected to the lower end of said tube, a siphon bell nesting over said tube, said tube and bell being arranged so that the tube and interior of the bell communicate, said bell being dished at the top, an air tube secured to said bell extending into said discharge tube and communicating with the dome thereof at the low point of the dished surface, and a control bell nesting over said siphon bell.

1,419,427. WASHING MACHINE. REUBEN D. TITTLE, Springfield, Ohio. Filed Mar. 2, 1921. Serial No. 449,251. 7 Claims. (Cl. 68—37.)



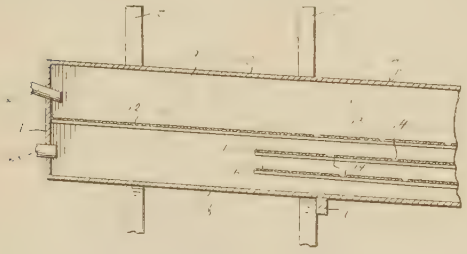
6. In a clothes washing machine, the combination with a clothes receptacle, of a plurality of cylinders spaced about said receptacle and each having a valve controlled inlet communicating with said receptacle and having a discharge opening arranged above said inlet, a piston mounted in each cylinder, piston rods connected with the respective pistons and extending above the tops of the respective cylinders, a rock arm mounted beneath said receptacle, means for connecting said rock arm with said piston rods, and means for actuating said rock arm.

1,419,428. PISTON-RING-TESTING MACHINE. EDWARD F. ULRICH, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Feb. 18, 1920. Serial No. 359,658. 8 Claims. (Cl. 265 —19.)



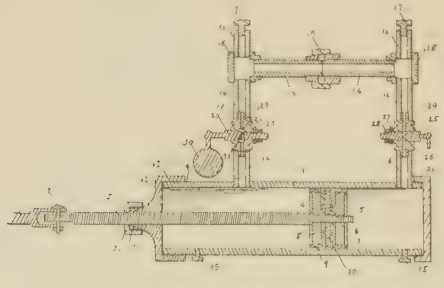
1. In a device of the class described, in combination, means for engaging and compressing a piston ring, comprising a pair of members movable toward each other to compress such ring, and resilient means mounted upon one of said members adapted to be distorted by the expansive force of such ring.

1,419,429. SEPARATOR. HENRY M. WADE, Frederick, Okla. Filed Aug. 15, 1921. Serial No. 492,391. 2 Claims. (Cl. 83—89.)



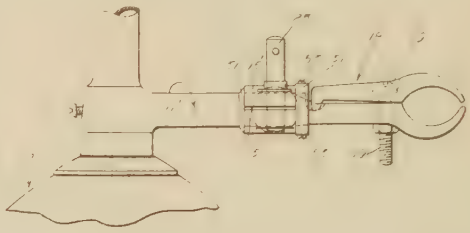
1. In a separator, an elongated box adapted to have water pass therethrough, a plurality of superimposed separated screens arranged throughout the major portion of the box, eddy forming basins secured to the bottom of the box beneath said screens, ore catching members freely swinging in the box and floatable on the water passing therethrough, and pockets carried on the lower side of said ore catching members.

1,419,430. BRAKE-CONTROLLING DASHPOT. THOMAS W. WHEATLEY, Shickshinny, Pa. Filed Sept. 15, 1921. Serial No. 500,851. 4 Claims. (Cl. 188—99.)



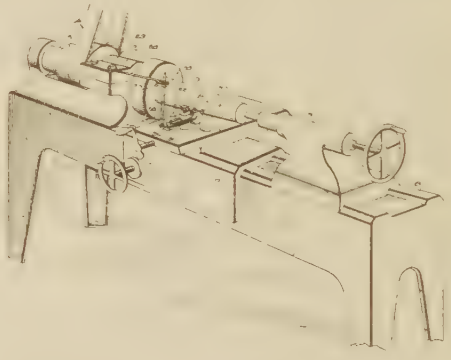
1. A brake controlling mechanism embracing a dash pot having a piston rod connection adapted to operate a brake, a cylinder in which said piston rod operates, a plunger consisting of three solid disks and two fibrous disks attached to said rod and slidable in said cylinder, pipe connections entering said cylinder at two points, a valve body containing a circumferential groove connecting with said piping, a stop cock provided with a weighted handle adapted to fit in said valve body, a second valve body provided with a stop sock and means for filling and cleaning said cylinder.

1,419,431. BRACKET AND LIMITING DEVICE FOR SPOTLIGHTS. RALPH E. WILLIAMS, Los Angeles, Calif. Filed Dec. 3, 1919. Serial No. 342,127. 2 Claims. (Cl. 240—7.)



1. In a lamp mounting a socket, a lamp carrying trunnion extending into the socket from one end to be rotatable therein, a shoulder on the end of the trunnion which is in the socket, a cap on the other end of the socket, and a projection extending from the cap into the socket to cooperate with the shoulder to limit the rotary movement of the trunnion in the socket.

1,419,432. LATHE TOOL. EDWARD J. WILLIS, Richmond, Va. Filed Sept. 2, 1920. Serial No. 407,667. 6 Claims. (Cl. 82—19.)

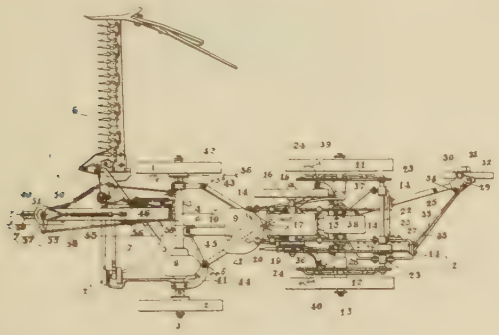


1. In a lathe tool for turning tapers, a carriage, a support mounted on said carriage, a cutting point carried by said support and capable of independent movement toward and away from the axis of the lathe, a spring for normally retaining the cutting point in withdrawn position, an arm pivotally mounted on said support, said arm being arranged to control the movement of the cutting tool, and a flexible element connected to said arm and to a fixed part of the lathe to control the movement of the cutting point toward and away from the axis of the lathe.

1,419,433. POWER-PROPELLED HARVESTER. FREDERICK D. WILSON and ROBERT C. LIVESAY, Moline, Ill., assignors to Deere and Company, Moline, Ill., a Corporation of Illinois. Filed June 26, 1917. Serial No. 177,020. 9 Claims. (Cl. 180—14.)

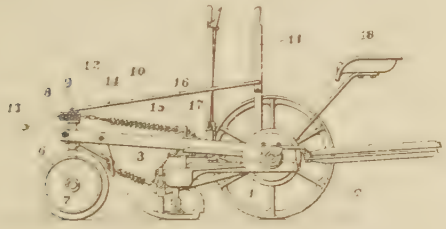
1. The combination of a forward power propelled vehicle having its load carrying element positioned laterally

eccentrically relatively to the central longitudinal vertical plane of the vehicle optionally controlled steering mechanism mounted on the front vehicle for changing its direction of movement, and a rear power propelling vehicle connected to the forward vehicle by devices permitting the forward vehicle, while advancing, to turn laterally



relatively to the rear vehicle, said connecting devices transmitting power by thrust to the forward vehicle, the median longitudinal plane of power application being remote from the central vertical plane of the forward vehicle in the direction of the load carrying element, the rear vehicle being steered by the forward one.

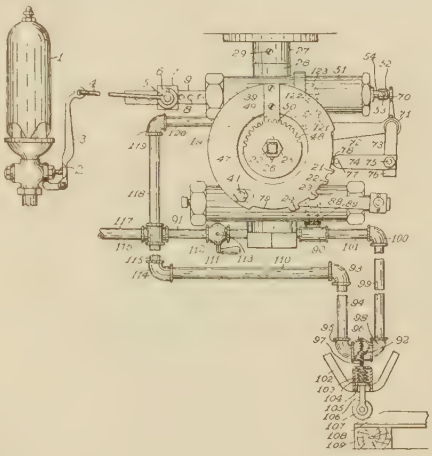
1,419,434. STEERING WHEEL. FREDERICK D. WILSON, Moline, Ill., assignor to Deere and Company, Moline, Ill., a Corporation of Illinois. Filed June 26, 1917, Serial No. 177,019. Renewed Nov. 15, 1921. Serial No. 515,425. 4 Claims. (Cl. 280—92.)



1. A steering device comprising a support, a vertically disposed crank axle journaled thereon, a wheel on said axle, a lever having a connection with said axle and adapted to rotate the latter to steer the wheel and change the direction of travel, a chain having a fixed connection with the axle and extending rearwardly from opposite sides thereof, and a coiled spring attached to the support and connected to the chain centrally of the rearward extension thereof.

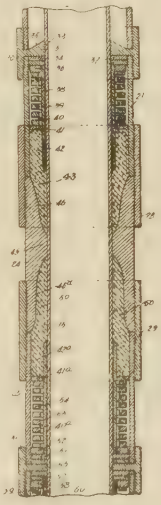
1,419,435. SIGNAL-GOVERNING APPARATUS. ALBERTO I. WOODRING, Waterloo, Iowa, assignor, by mesne assignments, to National Safety Devices Company, Waterloo, Iowa. Filed Jan. 19, 1922. Serial No. 530,315. 8 Claims. (Cl. 116—65.)

7. In a signal governing apparatus, a signaling device having a movable operating element, a resiliently-controlled rock-body having a number of spaced circumferential cam-detents, a contact-device having a stop and a pivoted finger part positioned in the path of movement of said cam-detents to be shifted idly thereby while the rock-body is rocking in one direction and to be engaged by said detents and stop to oscillate the contact-device when the rock-body is rocked in a reverse direction, operative connections between said contact-device and the operating element of said signal, fluid-pressure controlled means connected to said rock-body, and means operable to initiate and terminate the action of the fluid-pressure controlled means, including a valve-chamber containing a check-valve having a projecting valve-stem, and a re-



siliently-controlled movable contact-device propellable to open said check-valve and to react when released to allow the check-valve to close.

1,419,436. PUMP. GEORGE W. WRIGHT, Los Angeles, Calif. Filed Apr. 25, 1921. Serial No. 464,138. 6 Claims. (Cl. 103—61.)

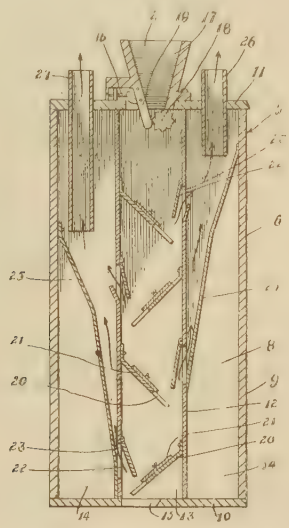


1. In a pump of the character described embodying a barrel and a plunger therein, packing means between the barrel and plunger comprising, a stationary member carried by the barrel between it and the plunger, a ring around the plunger and within the barrel, packing around the plunger between the stationary member and the ring, an extension on the ring extending around the plunger and through the barrel, active packing around the plunger beyond the end of the extension, reserve packing around the extension and adjacent to the active packing, and means between the extension and the barrel to press the ring against the first mentioned packing and to press the reserve packing toward the active packing.

1,419,437. ASBESTOS-FIBER SEPARATOR. ALFRED ANGERS, Black Lake, Quebec, Canada. Filed June 18, 1921. Serial No. 478,672. 2 Claims. (Cl. 83—54.)

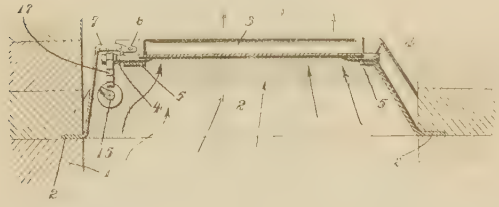
1. In a machine of the character described, the combination of a housing, partitions located within said

housing, and dividing the latter into central and side compartments, said partitions having openings therein, providing communication between the central and side compartments, plates secured to the inner side of the central compartment above the openings and inclined downwardly, baffle plates arranged in staggered relation, and



extending toward the ends of the first mentioned plates, suction pipes extending into the side compartments, at the upper end thereof, and inclined plates leading from the lower end of the partitions to the upper end of the side compartments, substantially as, and for the purposes set forth.

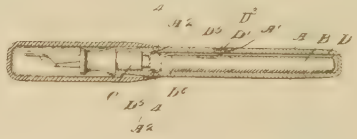
1,419,438. DAMPER. BURLEIGH F. ANNIS, Chattanooga, Tenn. Filed Oct. 21, 1921. Serial No. 509,241. 4 Claims. (Cl. 126—288.)



1. A fire place damper including a dome, having an integral inwardly opening closed top compartment in one side thereof off-set laterally from the damper opening and accessible from within the same, a damper in said opening having pivotal mounting in the side walls of the dome, one of the pivotal bearings of said damper being elongated and extending into the laterally off-set compartment, and damper operating mechanism within said compartment for imparting rotary movement to the damper.

1,419,439. FOUNTAIN PEN. FRANK M. ASHLEY, New York, N. Y. Filed Jan. 31, 1917. Serial No. 145,581. 1 Claim. (Cl. 120—46.)

A fountain pen comprising a barrel having an opening in one side thereof, a sack, a presser-bar having a projection located in said opening the top of which is disposed flush with the outer surface of the barrel, said presser bar having a ring at one end provided with



a projection adapted to engage the wall of an opening formed in the barrel, said barrel having an opening to receive said projection.

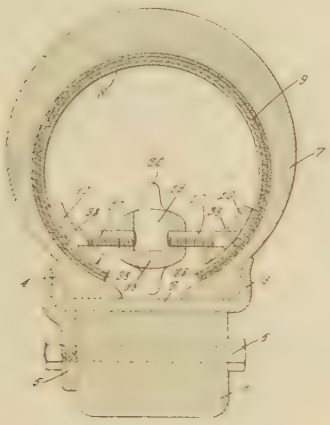
1,419,440. MAKING PLATES FOR MUSICAL INSTRUMENTS. FRANK M. ASHLEY, New York, N. Y. Filed Oct. 17, 1917. Serial No. 197,059. 4 Claims. (Cl. 84—275.)

1. A sounding board for a musical instrument, consisting of a plate of wood of predetermined thickness, routed intermediate its middle and edge portions to provide proper grading and having the middle portion pressed above the plane of the edge portion to provide the proper arching.

1,419,441. LETTERING PEN. WALTER F. BARCH, Washington, D. C. Filed Feb. 24, 1921. Serial No. 447,390. 6 Claims. (Cl. 120—110.)

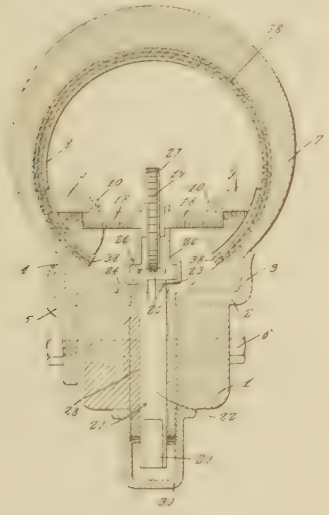
1. In a lettering pen the combination of two substantially rigid writing nibs spaced one above the other in a vertical plane when in writing position and substantially straight throughout their entire length, each nib having a semi-circular terminus and said nibs together forming a substantially circular writing surface.

1,419,442. INNER TUBE. FRANK E. BESSLER, Akron, Ohio. Filed Aug. 15, 1921, Serial No. 492,316. Renewed May 8, 1922. Serial No. 559,422. 3 Claims. (Cl. 152—8.)



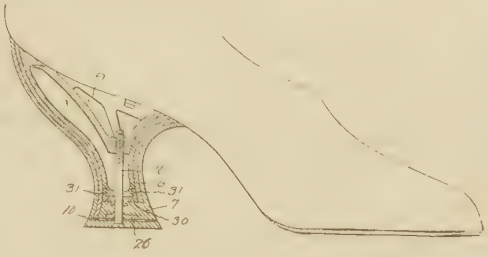
1. In a device of the class described, a casing; a transversely expansible frame in the casing and having free longitudinal edges; pairs of transverse screws fixed to the frame adjacent to the longitudinal edges thereof; and a rotatable member threaded in opposite directions on the screws of each pair.

1,419,443. INNER TUBE. FRANK E. BESSLER, Akron, Ohio. Filed Aug. 15, 1921. Serial No. 492,317. Renewed May 8, 1922. Serial No. 559,423. 2 Claims. (Cl. 152—8.)



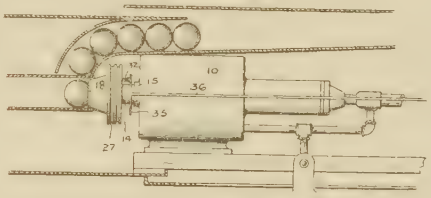
1. In a device of the class described, a wheel body; a casing on the wheel body; a transversely expansible frame in the casing and having free longitudinal edges; transverse screws each oppositely threaded at its ends into the frame adjacent to the free longitudinal edges of the frame; sprocket wheels on the screws; a sprocket chain engaging the sprocket wheels; and a shaft journaled in the wheel body, the shaft being provided on its end with ribs engaging one sprocket wheel and curved eccentrically with respect to the axis of rotation of the shaft.

1,419,444. SHOE HEEL. THEODORE BIBICOS, Cleveland, Ohio. Filed June 15, 1921. Serial No. 477,669. 2 Claims. (Cl. 36—41.)



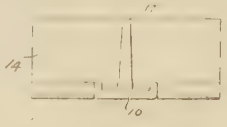
1. A reinforcing shell for a molded heel having an auxiliary plate set in the shell between the top and bottom thereof, said shell and plate being embedded in the molded heel.

1,419,445. BALL PROJECTOR. BENJAMIN L. BLAIR, Indianapolis, Ind. Filed Jan. 20, 1919, Serial No. 271,972. Renewed July 9, 1921. Serial No. 483,611. 7 Claims. (Cl. 124—8.)



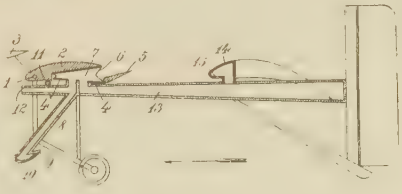
1. The combination with an air gun having an air release port, of a ball projector having revoluble movement about its longitudinal axis, said projector being provided with an air discharge passageway communicating at the longitudinal axis of the projector with the port in the air gun and having its discharge mouth located at one side of the longitudinal axis of said projector.

1,419,446. JOINT FOR CROSSING BARS. EUGENE BOGERT, Ridgewood, N. J. Filed July 31, 1920. Serial No. 400,340. 8 Claims. (Cl. 189—36.)



7. A joint comprising a pair of intersecting T-bars, said bars having slots extending from the top and bottom thereof, respectively, and adapted to permit said bars to be brought into intersecting relation with the bottoms of said flanges in the same plane, one of said webs having an integral lip extending over the other of said webs.

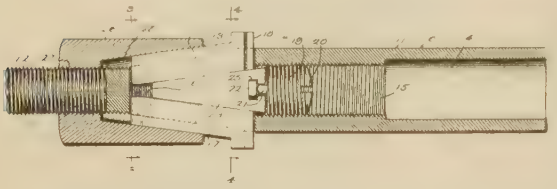
1,419,447. FLYING MACHINE. FRIEDRICH WILHELM BUDIG, Falkenberg-Grunau, near Berlin, Germany. Filed June 16, 1921. Serial No. 478,125. 10 Claims. (Cl. 244—29.)



1. A flying machine, comprising, in combination, a steadying body adapted to swing around a horizontal

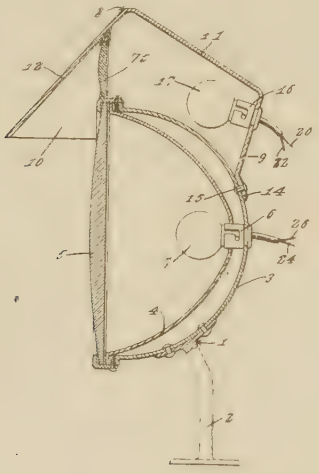
axis; a horizontal axle forming said axis and being supported by the flying machine; a stationary plate arranged behind and below said body; pliable means connecting said plate and the said body and forming a hollow space together with them; and means for producing a depression within said space.

1,419,448. BORING HEAD. CECIL E. DAVIS, Montezuma, Kans. Filed Jan. 17, 1921. Serial No. 437,864. 2 Claims. (Cl. 77—58.)



1. A boring head comprising a body portion provided with a threaded bore and a radial slot communicating with said bore, a plurality of cutters mounted in said slot, an expanding member mounted in said slot between said cutters, said expanding member being provided in one end with a substantially T-shaped slot, a threaded plug mounted in the threaded bore of said body portion, said plug being provided with a shank and head adapted to be received in the slot of said expanding member and means for locking said cutters against outward movement.

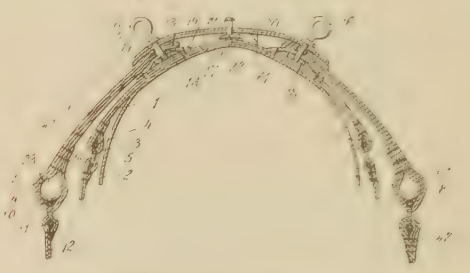
1,419,449. HEADLIGHT. CURTIS E. DULL, Ohio City, Ohio. Filed Sept. 22, 1921. Serial No. 502,371. 1 Claim. (Cl. 240—41.)



The combination with an automobile headlight including a main casing and a front lens, of a hood mounted on top of said casing and comprising a front wall abruptly inclined downwardly and forwardly and overhanging the upper portion of said lens, a wall extending downwardly and rearwardly from the upper end of said front wall, and an upright rear wall merging at its upper end into said second mentioned wall, and a lamp carried by said rear wall.

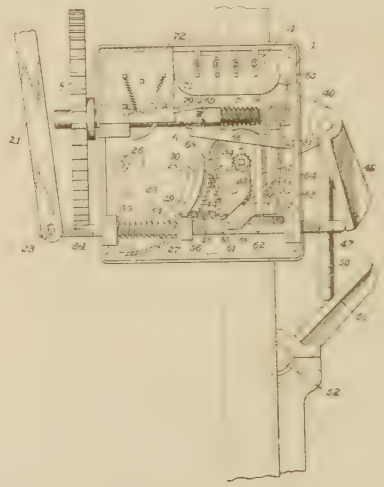
1,419,450. HARNESS. HENRY C. EGERTON, Ridgewood, N. J. Filed Oct. 15, 1918. Serial No. 258,281. 20 Claims. (Cl. 54—38.)

1. The jack saddle comprising a body formed of a plurality of layers of canvas fabric and connected supporting strap members formed of a plurality of fabric layers, said fabric enclosing metallic members comprising supporting parts of the saddle rings and water hook, the fabric members in the top part of said jack saddle carrying and being impregnated with cured hard curing phenolic condensation cementing and strengthening ma-



terial securely uniting and stiffening said elements and the body of the copending strap supporting members being flexible and carrying cured soft curing phenolic condensation cementing material strengthening and waterproofing the fabric of such members.

1,419,451. BATCH METER FOR CONCRETE MIXERS AND THE LIKE. CHARLES E. FOOTE, Nunda, N. Y., assignor to The Foote Company, Nunda, N. Y., a Corporation of New York. Filed Feb. 8, 1921. Serial No. 443,328. 15 Claims. (Cl. 83—73.)

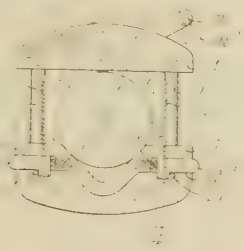


1. A batch meter for concrete mixers comprising a casing, a worm shaft in said casing and adapted to be driven from the drum of the mixer, a slidable bar, a trip mechanism set by said slidable bar, a timing segment pivotally mounted in said casing, means driven by said worm and swung into engagement with said timing segment when said bar is forced inwardly, said trip mechanism and said slidable bar released by said timing segment after said worm shaft has made a predetermined number of revolutions, and means for returning the slidable bar to its normal position.

1,419,452. LATHE DOG. ARTHUR M. FRASER, Westboro, Mass. Filed Jan. 24, 1920. Serial No. 353,784. 6 Claims. (Cl. 82—42.)

1. A lathe-dog having, in combination, a jaw, a plurality of parallel rods fast to said jaw, teeth formed upon said rods, a second jaw slidably mounted upon said rods and provided with grooves extending inwardly from each end thereof, and a plurality of locking slides mounted within said grooves and projecting outwardly therefrom at the outer end thereof, said locking slides

being provided with teeth formed integral therewith adapted to yieldingly engage the teeth of said rods and

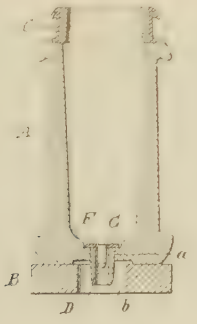


prevent the separation of said jaws, said rods projecting through openings provided in said locking slides.

1,419,453. TIRE PATCH. JACOB S. FRITZ, Zanesville, Ohio. Filed Feb. 7, 1921. Serial No. 443,091. 3 Claims. (Cl. 152—24.)

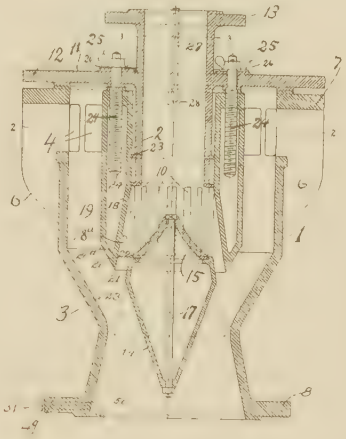
3. A combined blow-out and rim-cut patch for disposition between the casing and inner tube of an automobile tire comprising a tubular split sleeve for surrounding the inner tube and covering the break in the casing, said sleeve being made up of a plurality of superimposed layers of rubbered fabric, and the side walls thereof being of different thickness and having bevelled portions arranged in overlapping relation to form the tread portion, one of the fabric layers of the thickest side wall being extended beyond the other layers and being intended to be wrapped against the thinner wall to make the two walls of substantially the same thickness, the free end of said one layer to be passed between the casing bead and rim to retain the sleeve in the proper place, and there being an external anchoring rib at the juncture of the two walls adapted for disposition between the beads of the casing to assist in retaining the sleeve in position.

1,419,454. INGOT MOLD. EMIL GATHMANN, Baltimore, Md. Filed Jan. 10, 1922. Serial No. 528,219. 11 Claims. (Cl. 22—95.)



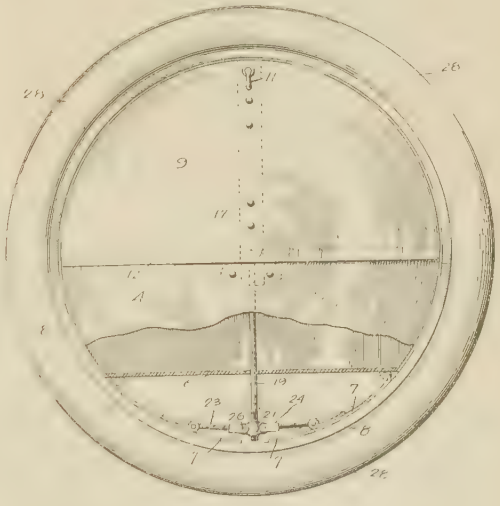
1. An ingot mold having a bottom opening, a plug extending into said opening, a sealing plate resting on the bottom of the mold above the plug, and means for locking the sealing plate in position.

1,419,455. AUTOMATIC MIXING AND PROPORTIONING DEVICE OR VALVE. DAVID GUELBAUM, Syracuse, N. Y. Filed Dec. 21, 1920. Serial No. 432,186. 9 Claims. (Cl. 251—73.)



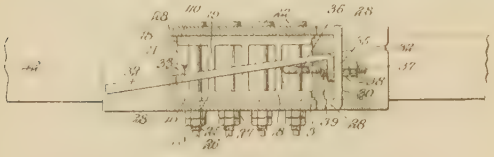
1. A mixing device comprising inner and outer hollow concentric members, the outer member being formed with a contracting conical passage, the inner member being formed with lengthwise slots near its inner end, means closing the inner end of the inner member, an adjusting sleeve concentric with said members and shiftable lengthwise toward and from the contracting wall of the outer member, the inner end of the sleeve having a conical bore encircling the slotted portion of the inner member and said inner member having a conical surface opposed to the bore of the sleeve member, and means for moving the sleeve member axially, substantially as and for the purpose described.

1,419,456. COMBINATION TIRE CARRIER AND TOOL BOX. EMIL JOHNSON, San Francisco, Calif. Filed May 31, 1921. Serial No. 474,036. 7 Claims. (Cl. 224—29.)



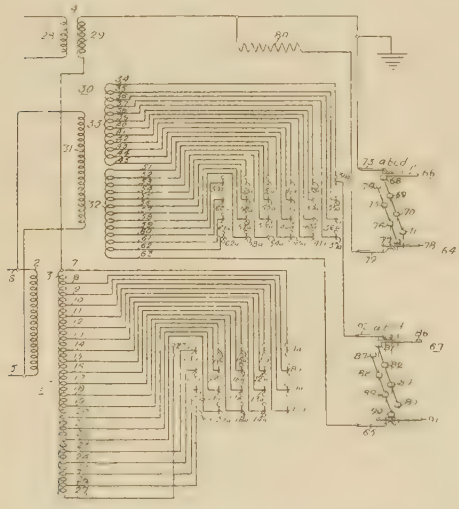
1. A combination tire carrier and tool box comprising a substantially circular receptacle arranged to carry a spare rim; hinged sectors mounted upon the periphery of said receptacle and arranged to engage said rim; a cover hingedly connected to said receptacle; and means operatively connected to said cover and to the hinged sectors and arranged to automatically disengage said sectors from the spare rim when the cover is opened.

1,419,457. CROSSHEAD. MILES D. JOYNER, Spartanburg, S. C. Filed June 1, 1921. Serial No. 474,086. 11 Claims. (Cl. 74—84.)



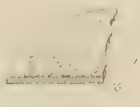
1. In a cross head, a two part gib with matching rabbets to receive a guide bar on which the gib travels, said parts of the gib having a longitudinal flange on the edge remote from the rabbet with the flange provided with ears projecting toward the other part of the gib and of progressively different lengths from one end of the gib to the other with the ears defining a channel running diagonally of the gib, and a longitudinally tapered key lodged between the adjacent ends of the ears and shaped to spread the two parts of the gib by longitudinal movement of the key.

1,419,458. VOLTAGE-REGULATOR SYSTEM. EDWIN LEHR, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Original application filed Mar. 7, 1916, Serial No. 82,625. Divided and this application filed June 25, 1919. Serial No. 306,689. 17 Claims. (Cl. 171—119.)



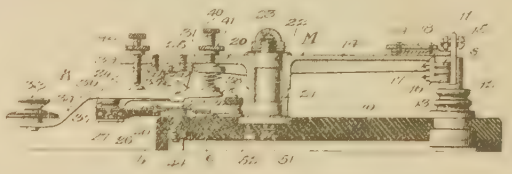
17. The combination with a main transformer having a plurality of taps extending from it, of means comprising two differentially related floating coils for changing circuit connections from one of said taps to another tap.

1,419,459. PHONOGRAPH. JAMES T. LEITCH, Allentown, Pa., assignor of one-fifth to Tilghman A. Freed and one-fifth to Eva S. Freed, both of Allentown, Pa. Original application filed Aug. 12, 1920, Serial No. 403,115. Divided and this application filed Apr. 15, 1921. Serial No. 461,615. 1 Claim. (Cl. 181—32.)



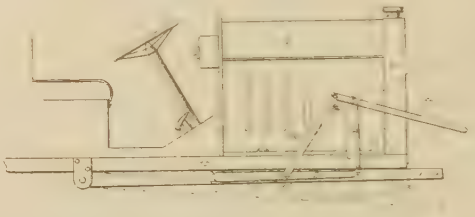
In a phonographic reproducer, a diaphragm consisting of a mica disc having a multitude of metallic particles adhesively connected to its surface.

1,419,460. COMBINED KEY AND SWITCH. FRITZ LOWENSTEIN, Brooklyn, N. Y. Filed Nov. 29, 1918. Serial No. 264,643. 11 Claims. (Cl. 178—103.)



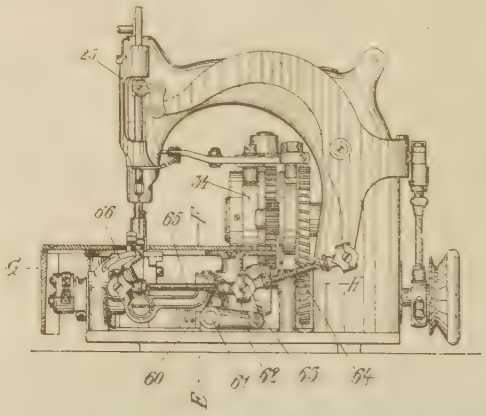
5. In a combined key and wave change handle, in combination, a base, a plurality of sets of concentrically arranged contacts on said base, a controller member pivoted concentrically of said contacts and comprising conducting arms spaced from the upper side of the base, contact members carried by said arms and arranged to respectively engage the sets of contacts on the base, one of said contact members being insulated from the arm that carries it, and a key lever electrically connected to said controller member and pivotally mounted below the last-mentioned arm, said key lever being normally electrically disconnected from said insulated contact but being operable to engage the same and to close an electrical circuit through it and the arm supporting it.

1,419,461. STARTER FOR INTERNAL-COMBUSTION ENGINES. FRANK J. MCCANDLESS, Allerton, Iowa. Filed July 26, 1919. Serial No. 313,643. 9 Claims. (Cl. 74—54.)



1. The combination of a frame and a shaft mounted therein with a platform pivoted on said frame and adapted to support a person standing on the platform, means for operatively connecting said platform with said shaft, and a hand lever operatively connected with said shaft and adapted to be grasped by the person standing on the platform.

1,419,462. CHAIN-STITCH MACHINE. KARL MAIER, Stuttgart, Germany, assignor to Union-Special Maschinenfabrik Gesellschaft mit beschrankter Haftung, Stuttgart, Germany. Filed Sept. 11, 1917. Serial No. 190,822. 6 Claims. (Cl. 112—159.)



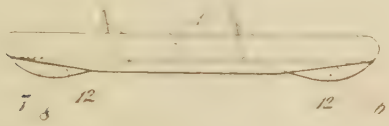
1. A chain stitch sewing machine including in combination, a needle bar, a needle carried thereby, a guiding

frame for the needle bar supported to swing on a vertical axis, a looper co-operating with said needle, toggle links for oscillating said looper into and out of the needle loop, cam mechanism connected to the needle bar guiding frame for shifting the needle bar laterally, said cam mechanism being connected to said toggle links for shifting said links into and out of alinement, whereby the oscillating position of the looper is shifted to correspond to the shifted position of the needle.

1,419,463. PROCESS OF PURIFYING SODIUM CARBONATE AND THE LIKE. FRANK H. MERRILL, Los Angeles, Calif. Filed Apr. 30, 1921. Serial No. 465,702. 7 Claims. (Cl. 23—22.)

1. The process of removing carbonaceous matter from carbonate compounds of sodium, embodying heating the sodium compound in the presence of sodium nitrate.

1,419,464. COLLAPSIBLE BOAT. HERMANN MEYER, Berlin, Germany, assignor to August Riedinger, Ballonfabrik Augsburg, Aktiengesellschaft, Augsburg, Germany, a German Corporation. Filed June 4, 1920. Serial No. 386,582. 8 Claims. (Cl. 9—2.)

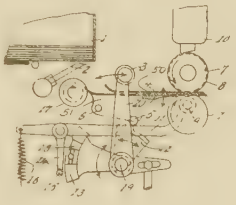


2. A collapsible boat comprising an annular air-tube whose cross-section gradually decreases towards bow and stern, the lower faces of the bow and stern portions of said tube extending in planes gradually ascending from the middle of the boat towards the ends.

1,419,465. CONVERTIBLE FURNITURE. LEWIS W. MILLER, Muskogee, Okla. Filed Mar. 2, 1921. Serial No. 449,082. 5 Claims. (Cl. 155—43.)

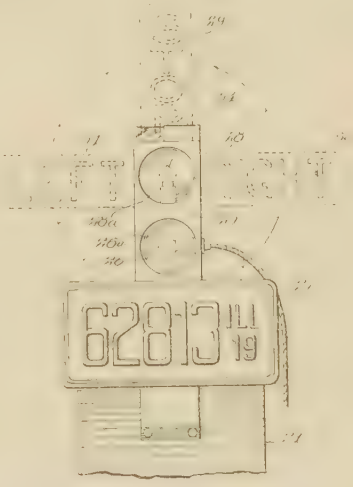
1. An article of furniture comprising a pair of spaced vertical end members rigidly connected, horizontal cleats along the upper edges of said end members on the outer sides thereof, the lower edges of said cleats having forwardly facing hooks at their rear ends a back member disposed vertically at the rear edges of said end members and projecting beyond them, vertical cleats on the projecting ends of said back member and disposed adjacent the outer sides of said first named cleats, and a stud extending inwardly from the upper end of each of said vertical cleats and received in the hook of the adjacent horizontal cleat, the lower edge of said back member being free to move rearwardly and upwardly whereby said member may be so moved and then shifted forwardly onto the upper edges of said end members to form part of a table top; together with a seat extending between said end members and movable upwardly to the upper edges thereof to form the remainder of the table top.

1,419,466. APPARATUS FOR APPLYING ADHESIVES ALTERNATELY TO BOTH FACES OF SHEETS OF PAPER OR THE LIKE. WALTER EVERETT MOLINS, London, England. Filed Feb. 2, 1921. Serial No. 441,896. 8 Claims. (Cl. 91—48.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In an adhesive applying apparatus in combination, a pair of adhesive applying elements, means for passing a sheet of material between the elements, and means for holding the sheet successively against each element.

1,419,467. AUTOMOBILE INDICATOR. FRED R. MOORE, Chicago, Ill. Filed Aug. 12, 1921. Serial No. 491,812. 12 Claims. (Cl. 74—39.)

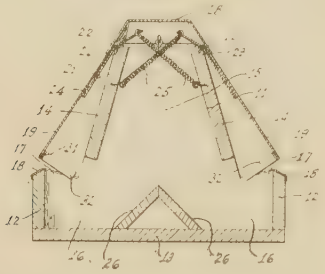


1. The combination with a mechanism having a plurality of movable elements, of flexible operating means for said elements, a shaft which is rotatable and also movable in the direction of its length, a connection between the shaft and the operating means of one of the elements for actuating the same by the longitudinal movement of the shaft in one direction, a member connected to the shaft and adapted to be swung in opposite directions by rotation of the shaft, and connections between said member and the other element for selectively operating the same.

1,419,468. WATERPROOF STOCK FEEDER. JOHN OSNES, Garner, and CLARENCE HALVERSON, Clear Lake, Iowa, and DOLLNER S. FOLEY, Minneapolis, Minn. Filed Aug. 17, 1921. Serial No. 493,130. 4 Claims. (Cl. 119—54.)

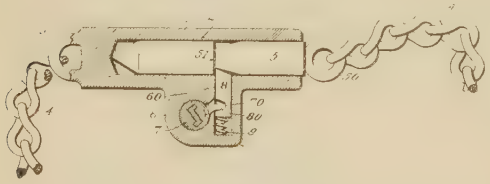
1. A feeding device of the character described comprising a trough having side walls provided with upward extensions at its middle, said upward extensions being provided with end walls to define a bin, a trough extending at each end beyond the bin portion, shields hinged to the upper ends of said walls and having wings extending over the outer faces of the side walls of the trough, springs urging said shields outward to a position wherein the shields will cover the projecting open ends of the

trough, said shields being shiftable inward to disclose the upper open ends of the trough, and a detachable cap



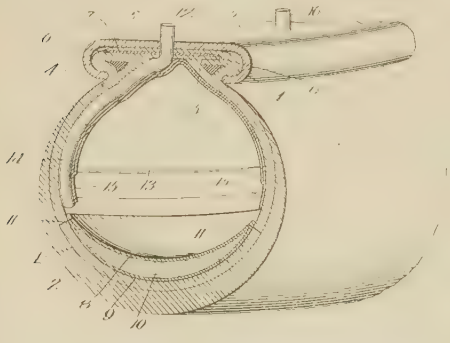
closing the upper end of the bin and extending over the upper ends of said shields.

1,419,469. AUTOMATIC SAFETY LOCK DEVICE. OTTO H. PASCHKE, Yakima, Wash., assignor to Automatic Truck Brake Company, Yakima, Wash., a Corporation. Filed Jan. 3, 1921. Serial No. 434,614. 1 Claim. (Cl. 70—17.)



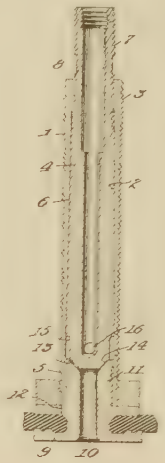
A safety lock device for the purposes described comprising a casing having a longitudinal socket, a locking plug insertable into the socket and having a locking notch, the said casing having a bore disposed at right angles to the plug receiving socket and in communication with the said socket and another bore disposed at right angles to the plunger receiving socket and the bolt bore and having a lateral passage in communication, at one side, with the bolt bore, a locking bolt in the bore with its axis normal to a plane containing the axes of the said longitudinal socket and said first mentioned bore that communicates with the lock plug receiving socket, a key worked locking element rotatably mounted in the bore having the lateral passage and including a radial member that projects through the lateral passage and constantly engages the locking bolt and a spring tending to normally project the locking end of the bolt in the path of the locking plug when the latter is inserted into the locking socket.

1,419,470. PNEUMATIC TIRE. ISAAC A. REASONER and DANIEL J. FLINTJER, Winona, Mo. Filed May 22, 1919. Serial No. 299,015. 1 Claim. (Cl. 152—13.)



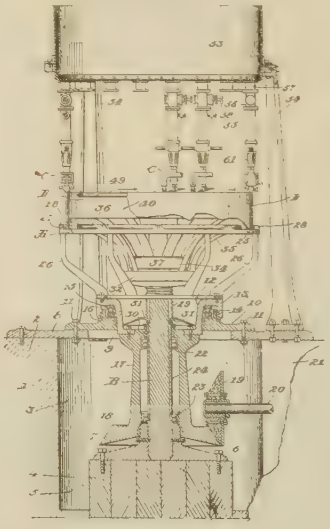
A pneumatic tire comprising a casing having marginal flaps to overlap at the inner side, a strip of plastic cement for interposition between said flaps to seal the joint between them, and a tube extending through said flaps and the interposed strip of cement and having an air-tight connection with the latter.

1,419,471. INFLATION VALVE. CHARLES J. REYNOLDS, Melrose, Mass. Filed June 4, 1920. Serial No. 386,569. 5 Claims. (Cl. 152—12.)



1. An inflation valve comprising, a barrel having an interior diameter decreasing from one end to the other end, a tubular spindle adapted to be mounted within said barrel and provided with a tapered valve face adapted to engage and cooperate with the inner wall of said barrel and having an air passage communicating with the interior of said barrel, a valve face carried by one end of said spindle, and a base provided with a post threaded for connection to said barrel, said post having an air passage and being provided with a valve seat surrounding the same and adapted to cooperate with the valve face carried by the spindle end.

1,419,472. APPARATUS FOR MAKING METAL WOOL AND SHAVINGS. RUDOLPH I. SCHONITZER, Springfield, Ohio, assignor to Scientific Steel Wool Company, Owensboro, Ky., a Corporation of Delaware. Filed Apr. 16, 1919. Serial No. 290,499. 32 Claims. (Cl. 29—4.5.)



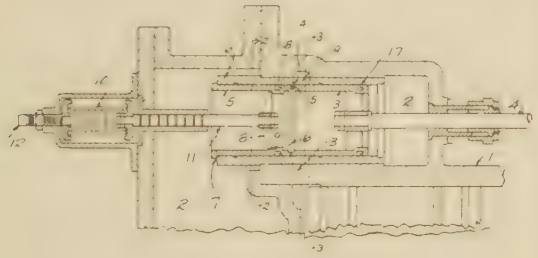
1. An apparatus for making metal wool and shavings, including a work holder, a plurality of cutters in cooperative relation with the work holder, means for individually gaging the depths of the cuts of the cutters, and

means for automatically and individually maintaining the cutters and work holder in their original cooperative cutting relations throughout the cutting operation.

1,419,473. METHOD OF MAKING METAL WOOL AND SHAVINGS. RUDOLPH I. SCHONITZER, Springfield, Ohio, assignor to Scientific Steel Wool Company, Owensboro, Ky., a Corporation of Delaware. Original application filed Apr. 16, 1919, Serial No. 290,499. Divided and this application filed Aug. 22, 1919. Serial No. 319,225. 23 Claims. (Cl. 29—4.5.)

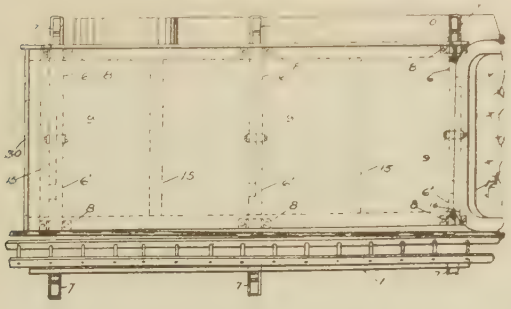
1. The method of making metal wool and shavings, consisting in interiorly supporting a metal tube of a single thickness, subjecting one end of the metal tube to the action of a shaving cutter, and maintaining the tube and cutter in cutting or shaving relation as the length of the tube diminishes under the action of the cutter.

1,419,474. VALVE. LE GRAND SKINNER, Erie, Pa. Filed Mar. 3, 1920. Serial No. 363,070. 20 Claims. (Cl. 121—193.)



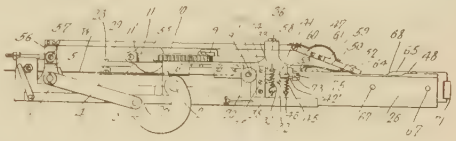
1. In a valve, the combination of a valve case having a port therethrough; a seat slidingly mounted in the case and making a closure with the walls of the case; and a valve slidingly mounted in the case and making a closure with the walls thereof with which the valve is in sliding contact and with the seat when in contact, said valve and seat seating one on the other and moving together with a closed port and separating to open the port.

1,419,475. VEHICLE. FRED AUGUSTUS SMITH, Medfield, Mass. Filed Feb. 10, 1920. Serial No. 357,524. 5 Claims. (Cl. 296—26.)



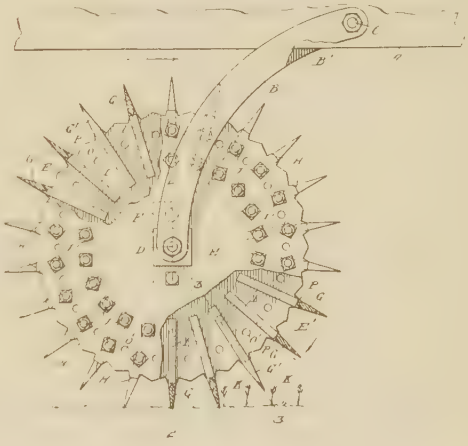
1. A device of the character described, including overlapping laterally adjustable bars carrying rack portions, a pinion for selective engagement with the racks to independently laterally adjust said bars, shifting means for the pinion, and a resilient locking device for securing the pinion in intermediate position to lock the bars against relative movement.

1,419,476. WIRE-LINK MACHINE. GARY B. SMITH, Chicago, Ill. Filed Sept. 12, 1917, Serial No. 190,973. Renewed Sept. 23, 1921. Serial No. 502,689. 14 Claims. (Cl. 59—19.)



1. In a machine of the character described, means for feeding a chain of links having hooks connecting them, a cam past which said hooks are moved, and means for feeding a new link past said cam to engage the last hook of the chain, said cam moving the new link over said hook.

1,419,477. CULTIVATOR ATTACHMENT. LAZARUS J. SUMMERLIN, Clem, Ga. Filed Sept. 29, 1921. Serial No. 504,059. 5 Claims. (Cl. 97—49.)

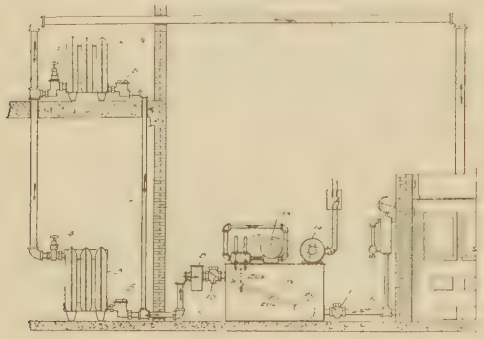


1. In devices of the class described, the combination with two rigidly connected rotary spaced disks adapted to roll along an intervening row of small plants, of transverse knives projecting beyond the margins of the disks, and means for adjusting the inclination of each knife with respect to a radial plane.

1,419,478. METHOD FOR TRANSFERRING LIQUIDS. ELMER B. THOMPSON and ELZA B. CARR, Des Moines, Iowa, assignors to Thompson Manufacturing Company, Des Moines, Iowa. Filed Jan. 13, 1921. Serial No. 436,909. 6 Claims. (Cl. 103—8.)

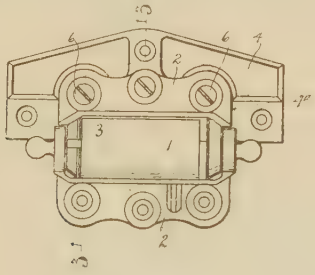
5. The combination with the boiler and the return piping of a steam heating system, of a receiver connected to said return piping and to said boiler and adapted to receive gaseous fluid and water of condensation from said piping when under sufficient vacuum and to discharge water to the boiler when under sufficient pressure, an air pump, a passage connecting said air pump to said receiver, and a plural way valve structure in said passage adapted

in one position of its movable parts to cause the pump when in action to withdraw gaseous fluid from said re-



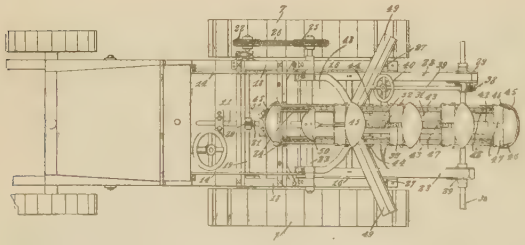
ceiver and in another position of said parts to cause the pump when in action to deliver gaseous fluid into said receiver.

1,419,479. HINGE. VICTOR WEBBER, Cleveland, Ohio. Filed Aug. 3, 1921. Serial No. 489,431. 3 Claims. (Cl. 16—181.)



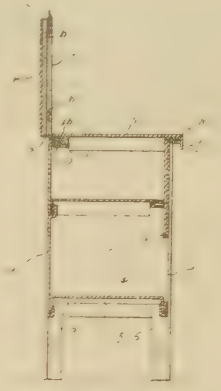
1. A hinge leaf mounting plate having an inwardly inclined face for the hinge leaf whereby the opposite leaf of the hinge will be normally inclined toward the plane of the base of said mounting plate when in closed position.

1,419,480. TRENCH-FORMING MACHINE. THOMAS KENNEDY WHITE, Sioux Falls, S. Dak. Filed Mar. 22, 1920. Serial No. 367,979. 3 Claims. (Cl. 37—24.)



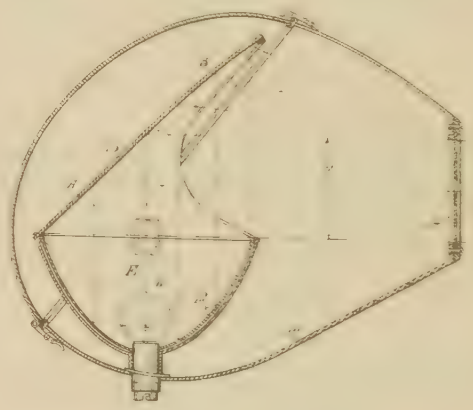
1. In an excavating machine, a main frame, a boom supported by the frame, means for adjusting the boom with respect to the frame to cause the same to operate at various angles, an endless chain of buckets operating over the boom, said buckets adapted to pivot with respect to the chain supporting the same, a scraping element adapted to pass through the buckets to remove material carried thereby, and means for operating the chain to cause the buckets to pick up material.

1,419,481. SHEET-METAL CABINET. FRANK P. WILLIAMS, Detroit, Mich. Filed May 2, 1921, Serial No. 466,004. Renewed Apr. 10, 1922. Serial No. 551,422. 13 Claims. (Cl. 45—5.)



3. In a sheet metal cabinet, the combination of front and rear plates having turned-back side edge portions to form portions of lock-seams, and side plates having perpendicular folds adapted to engage the folds of the front and rear plates to complete the lock-seam, the said side plates being provided with continuations down below the main body of the cabinet in the form of strips continuing the corners longitudinally and medianly folded and also folded back upon themselves on the inside to reinforce the legs.

1,419,482. HEADLIGHT. WILLIAM G. WOOD, San Francisco, Calif., assignor to Berkeley Light Corporation, Carson City, Nev., a Corporation of Nevada. Filed Feb. 5, 1920. Serial No. 356,486. 15 Claims. (Cl. 240—41.)

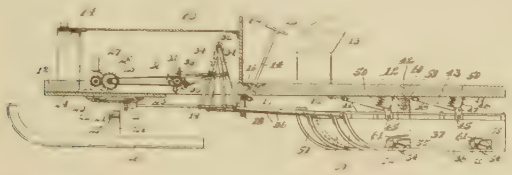


1. A headlight for vehicles comprising a housing, a source of light in the housing, means to project parallel rays therefrom and a composite reflector to receive the parallel rays and having means to project them out from the housing in the form of a beam having downwardly inclined rays diverging in a plurality of planes to illuminate objects nearest to the vehicle, said reflector also having means to project rays substantially horizontally and diverging in one plane only whereby to illuminate objects a greater distance from the vehicle.

1,419,483. MOTOR SLED. GUSTAVE A. AMBURSON, San Francisco, Calif. Filed Jan. 5, 1920. Serial No. 349,512. 4 Claims. (Cl. 180—4.)

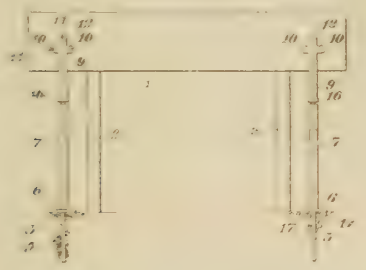
1. In combination with a motor driven sled having a reciprocating runner, said runner having a vertically po-

sitioned member longitudinally aligned therewith; resiliently held means pivotally mounted on said sled and engaging the upper edge of said member for holding said runner yieldingly in contact with the ground; a slot in



said upwardly extending portion; a dog pivotally mounted in said slot; and a spring member secured to said dog and positioned within said slot for forcing said dog into engagement with the ground upon a rearward stroke of said runner, substantially as described.

1,419,484. ANTIFRICTION ATTACHMENT FOR GREENHOUSE BENCHES. PAUL I. ANDREWS, Kennebunk, Me. Filed Jan. 6, 1921. Serial No. 435,482. 11 Claims. (Cl. 47—25.)



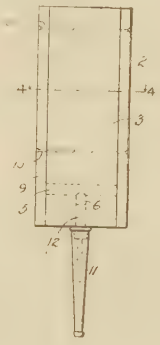
1. An anti-friction hose protector attachment for greenhouse benches, comprising a rod which extends into the ground in proximity to the bench, and which extends up alongside one wall of the bench, a tubular roller mounted loosely on said rod, the rod extending somewhat above the top of the roller, a clamp having a grooved shank portion which lies over the outer face of the rod above the upper end of the said roller, and means for securing the clamp to the bench.

10. An anti friction hose protector comprising a standard whose lower end is stuck into the ground, an antifriction tubular roller mounted on said standard, and a member connected with said standard which supports the lower end of said roller and rests upon the surface of the ground when the lower end of the standard is inserted in the ground.

1,419,485. ASSORTING DEVICE. JAMES G. ARCARO, Washington, D. C., and TURNER C. FURR, Rosslyn, Va. Filed July 16, 1921. Serial No. 485,336. 3 Claims. (Cl. 45—4.)

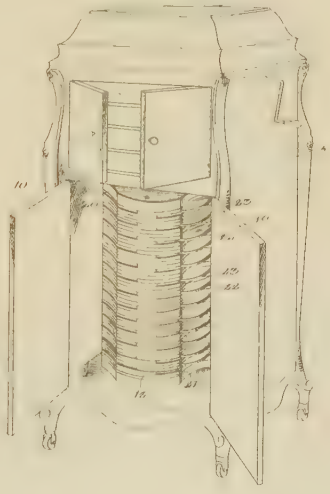
3. A device of the class described comprising a horizontal base, a plurality of spaced oblique transverse partition plates fixed upon said base, all of said plates being slanted toward one end of said base and forming a plurality of oblique compartments, and curved inclined ways fixed upon said base between said plates and forming the bottoms of said compartments, all of said ways being slanted toward the other end of said base, whereby to cause sheets as they are inserted into said compartments to slide toward and stack against the uppermost faces of said plates and to prevent the lower ends of the sheets from curling.

1,419,486. RESONATOR FOR REED PIPES. JOHN T. AUSTIN, Hartford, Conn., assignor to The Austin Organ Company, Hartford, Conn., a Corporation of Connecticut. Filed Sept. 4, 1920. Serial No. 408,214. 6 Claims. (Cl. 84—350.)



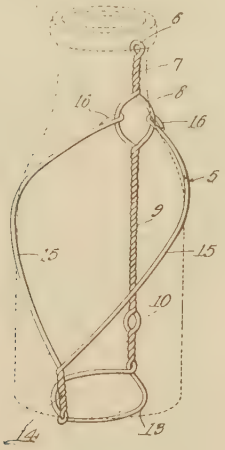
2. A device of the class described comprising an integral body of wood having wings spread apart to form a passage opening in the sides of the body, the body having a transverse bore intersected by the passage, walls on the sides of the body completing the sides of the passage, the body having, below the transverse bore, a longitudinal bore opening into the small end of the body and intersecting said transverse bore.

1,419,487. DISK-RECORD CONTAINER FOR PHONOGRAPHS. ANDREW GEORGE BLOCKER, St. Louis, Mo. Filed Aug. 20, 1921. Serial No. 493,776. 10 Claims. (Cl. 211—16.)



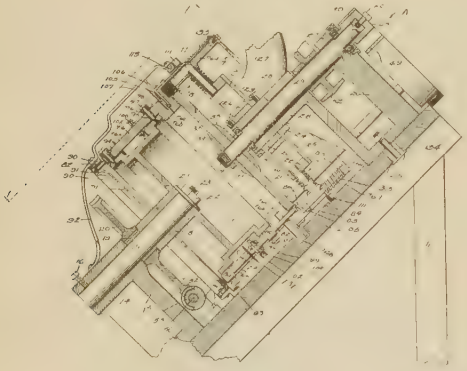
1. A phonograph record container comprising in combination, a multiplicity of superposed disks disposed one upon the other, each disk being formed with a recess extending inwardly from the periphery thereof and adapted to accommodate a disk record.

1,419,488. MILK-BOTTLE HOLDER. RALPH H. CALL, Manchester, N. H. Filed Jan. 3, 1922. Serial No. 526,786. 2 Claims. (Cl. 248—65.)



2. A device for receiving and holding milk bottles or the like, comprising a frame formed from sections of wire twisted together for providing an upstanding longitudinal portion, said section of wire being bent apart at the bottom forming a substantially elliptical horizontal body portion, said sections of wire being secured together at the forward side of said body portion and diverging upwardly in an inclined manner forming arms of a frame, said arms being anchored to the longitudinal portion, and means for attaching the longitudinal portion to a support.

1,419,489. BUTTON-BLANK-GRINDING MACHINE. EDWARD C. CARRIS, Washington, Iowa, assignor to Carris Manufacturing Company, Washington, Iowa. Filed Mar. 9, 1921. Serial No. 450,868. 17 Claims. (Cl. 79—10.)



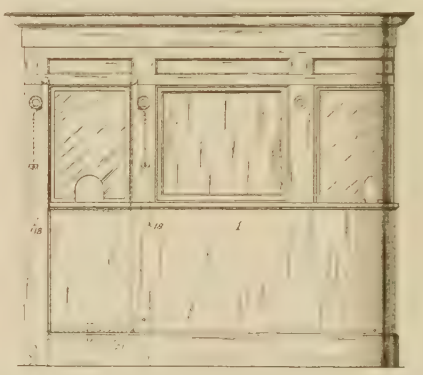
1. In a button blank grinding machine, a rotary grinding element arranged with its axis of rotation inclined from the vertical and having a flat face, a pair of aligned blank holding devices inclined from the vertical and arranged parallel with the axis of rotation of said grinding element, an inclined plate on which button blanks may slide freely into position to be engaged by said blank holding devices in a plane to which said axis of rotation is perpendicular.

1,419,490. CLOSED POCKET FOR PANELS AND METHOD OF FORMING SAME. CARL H. CARROLL, Arlington, Mass. Filed June 13, 1921. Serial No. 477,056. 4 Claims. (Cl. 296—44.)

1. A pocket for a door comprising a panel having a recess in its upper edge, a covering flap whose side and bottom edges lap over the side and bottom edges of said recess, and whose top edge is slightly below the upper

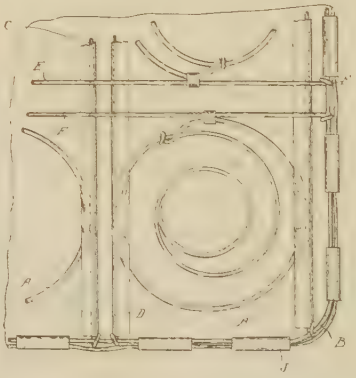
margin of the recess and a hinged connection between the upper edge of the flap and the upper marginal portion of the panel.

1,419,491. APPARATUS FOR PROTECTING BANKS AND THE LIKE. JAMES W. CLARKSON and CHRISTOPHER A. DIMLER, Washington, D. C. Filed Mar. 23, 1921. Serial No. 454,894. 11 Claims. (Cl. 20—1.01.)



1. An apparatus of the character described comprising a fixture having a window opening therein, a powder receptacle arranged adjacent said window opening and provided with a discharge outlet, means mounted within the receptacle for discharging its contents, a metallic shield adapted to close said window opening, and means adapted to simultaneously actuate the metallic shield and the receptacle discharging means.

1,419,492. CUSHION SEAT. CHRISTOPHER F. CODA, Detroit, Mich. Filed Sept. 3, 1921. Serial No. 498,214. 8 Claims. (Cl. 155—181.)



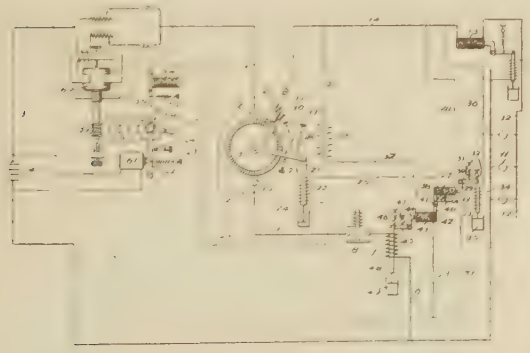
1. In a cushion seat, the combination with springs of a base border frame, cross members for attaching said springs to said base border frame each comprising a wire extending adjacent to the spring and a sheet metal strip

of U-shape in cross section surrounding said wire and crimped into engagement with each of said springs, said strip having the opposite ends thereof terminating short of the sides of said border frame, the ends of said cross wires being bent into engagement with said base border frame.

1,419,493. ELECTRIC REGULATION. JOHN L. CREVELING, White Plains, N. Y., assignor to Gould Coupler Company, a Corporation of New York. Filed Mar. 8, 1916, Serial No. 82,824. Renewed May 12, 1921. Serial No. 469,033. 14 Claims. (Cl. 171—229.)

1. Means for operating storage batteries and translating devices in cooperation with a controllable source of electrical potential difference comprehending means for charging a storage battery and operating translating devices from said source at different values of electrical potential difference derived therefrom, and means for controlling said source capable of acting entirely in response to fluctuations tending to take place in the translating circuit.

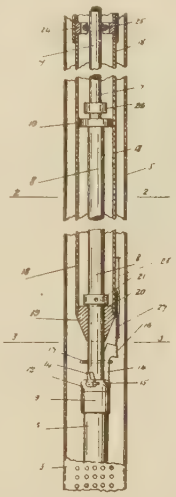
1,419,494. ELECTRIC REGULATION. JOHN L. CREVELING, White Plains, N. Y., assignor to Gould Coupler Company, a Corporation of New York. Filed May 2, 1916, Serial No. 94,968. Renewed June 29, 1921. Serial No. 481,415. 26 Claims. (Cl. 171—313.)



3. Means for operating a storage battery and translating devices in cooperation with a controllable source of electrical potential difference comprehending means for charging a storage battery and operating translating devices from said source at different values of potential difference derived therefrom, means for controlling said source in response to fluctuations tending to take place in the translating devices, and means cooperating therewith affected by the current supplied to and by the battery.

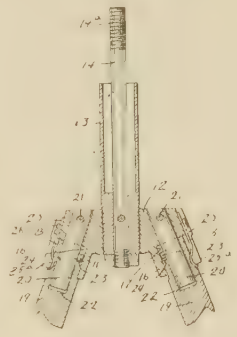
1,419,495. OIL-WELL PUMP. CHARLES DIBRELL FATOR, San Antonio, Tex. Filed Mar. 18, 1921. Serial No. 453,218. 7 Claims. (Cl. 103—65.)

1. The combination, with a well liner, and a pump arranged therein and provided with a slidable operating rod; of locking arms pivotally connected with the pump barrel, a guide secured to the pump barrel, and a locking device slidable on the said guide and operating when



moved in one direction to press the said arms outwardly into locking engagement with the said well liner, said locking device being held clear of the slidable rod by the said guide.

1,419,496. HOLDER FOR EDGE-SETTING TOOLS. JOHN E. FOSS, Jamaica Plain, Mass. Filed Nov. 17, 1920. Serial No. 424,778. 8 Claims. (Cl. 12—104.)

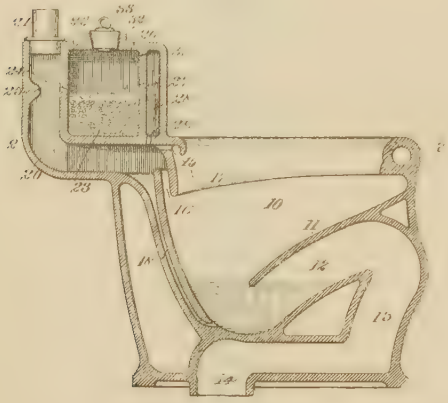


3. A vibratory holder for edge setting tools having shanks and axial recesses in the shanks, said holder having attaching means to secure the holder to a vibratory support, angularly-inclined recesses disposed on opposite sides of the attaching means arranged to conform to and receive and surround and engage the peripheries of the shanks and support the tools in position in the holder against lateral displacement, axially-disposed posts fixed to the holder and rising from the bottoms of the recesses arranged to enter the axial recesses in the tools, and engage the tools internally and support them laterally, and pins carried by the holder extended into said recesses near the bottoms thereof arranged to engage the tools and restrict angular movement thereof.

1,419,497. METHOD OF PROTECTING ANIMAL FIBERS FROM THE INJURIOUS EFFECT OF ALKALINE LIQUIDS. PAUL GOLDBERG, Berlin-Treptow, PAUL ONNERTZ, Berlin-Wilmersdorf, and ALFRED PETERS, Berlin, Germany, assignors to Actien Gesellschaft fur Anilin Fabrikation, Berlin, Germany. Filed Aug. 15, 1921. Serial No. 492,492. 4 Claims. (Cl. 8—5.)

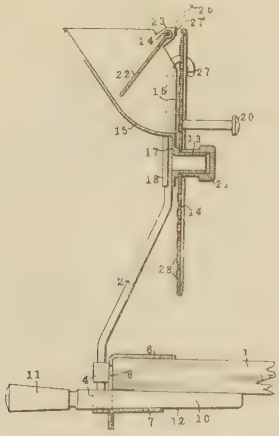
1. The method of protecting animal fibers from the injurious effect of alkaline liquids which consists in adding sulfite cellulose waste liquor to the alkaline liquids.

1,419,498. SANITARY FLUSH BOWL. ALEXANDER D. GRANT, San Jose, Calif. Filed May 8, 1919. Serial No. 295,589. 2 Claims. (Cl. 4—30.)



1. In combination with a closet bowl of the type having a hollow rim at its top and a water trap or seal at the bottom and a water conduit for supplying flushing water to the rim and other parts of the bowl, a receptacle to contain a solid, soluble chemical interposed in the water conduit having its lower portion entirely closed, said receptacle having opposed inlet and outlet openings near its upper portion to allow a portion of the incoming flushing water to be directed through the receptacle and thereafter join the main body of the flushing water before entering the rim and bowl.

1,419,499. VEGETABLE CUTTER AND CRUSHER. CARL R. HARTMAN, Mount Vernon, N. Y. Filed Sept. 3, 1921. Serial No. 498,199. 11 Claims. (Cl. 146—11.)



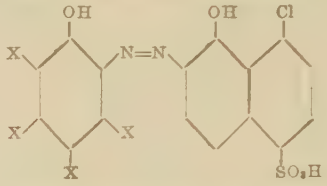
1. In a shredder, in combination, a frame, a bearing member carried by said frame, and a shredder disk keeper attachably connected to said bearing member and adapted to frictionally engage therewith.

1,419,500. ORTHOOXYAZO DYES. RUDOLF HAUGWITZ, Friedrichshagen, near Berlin, Germany, assignor to Actien Gesellschaft fur Anilin Fabrikation, Berlin, Germany. Filed Aug. 30, 1921. Serial No. 496,967. 7 Claims. (Cl. 260—86.)

1. The new azo dyes forming in the dry state dark powders being soluble in water, insoluble in alcohol, ether, benzene and pyridine, being destroyed by reducing agents, forming on mordanted wool bordeaux to violet brown chromium lakes and being sulfonic acids of the azo dyes derived from a diazotized aromatic ortho-oxyamino-compound and a monohydroxy derivative of quinoline.

1,419,501. ORTHOOXYAZO DYES. WILHELM HERZBERG, Berlin-Wilmersdorf, and OSWALD SCHARFENBERG, Berlin-Schoneberg, Germany, assignors to Actien Gesellschaft fur Anilin Fabrikation, Berlin, Germany. Filed Aug. 30, 1921. Serial No. 496,971. 5 Claims. (Cl. 260—94.)

1. The herein described new ortho-oxy-azo dyes being in the shape of alkali metal salts, dark powders soluble in water to blue solution from which an inorganic or organic acid separates a red precipitation, the aqueous blue solutions becoming violet by addition of sodium carbonate, red by addition of sodium hydroxide, yielding upon reduction 8-chloro-2-amino-naphthol-15-sulfonic acid and a 2-aminophenol derivative, dyeing on wool with chromium mordants blue tints of a very good fastness and corresponding as free acids to the general formula:

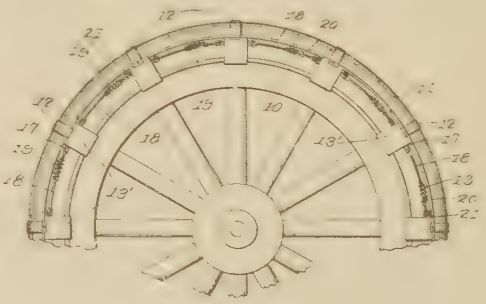


X meaning univalent substituents, such as hydrogen, alkyl, halogen, at least one of these substituents being a negative group such as halogen.

1,419,502. DYES. WILHELM HERZBERG, Berlin-Wilmersdorf, and GERHARD HOPPE, Berlin-Treptow, Germany, assignors to Actien Gesellschaft fur Anilin Fabrikation, Berlin, Germany. Filed Dec. 7, 1921. Serial No. 520,697. 7 Claims. (Cl. 260—29.)

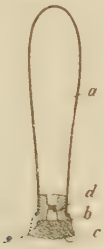
1. The herein-described new dyes being yellow to orange crystals or powders scarcely soluble in organic solvents, soluble in concentrated sulfuric acid with an orange-red to red color, reduced by sodium hydrosulfite in the presence of sodium hydroxide, yielding a vat from which fibrous material is dyed yellow to orange tints. fast to the action of chlorine and soap, these new dyes being condensation products which may be obtained by heating an 1.4-quinonoid compound halogenated in the quinonoid nucleus with an oxyazine.

1,419,503. TRACTION TREAD FOR WHEELS. HARRISON A. HUNTER, Mankato, Kans. Filed Mar. 26, 1921. Serial No. 455,929. 2 Claims. (Cl. 152—14.)



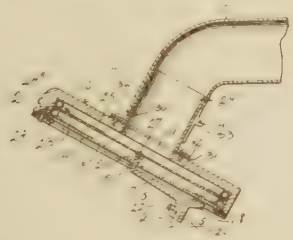
1. The combination with a vehicle wheel of a removable traction tread wheel comprising a plurality of transverse arcuate straps arranged across the tread of the wheel and having their ends extended oppositely therefrom, tread plates secured to the extensions of the straps, triangular blocks disposed with their bases against the opposite sides of the wheel and their apexes directed away from the wheel, said blocks being secured to the extensions of the straps, and flexible contractile connecting and spacing means between the blocks.

1,419,504. MOISTENER. HERMANN KAMP, Barmen, Germany. Filed May 23, 1914. Serial No. 840,565. 1 Claim. (Cl. 15—133.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



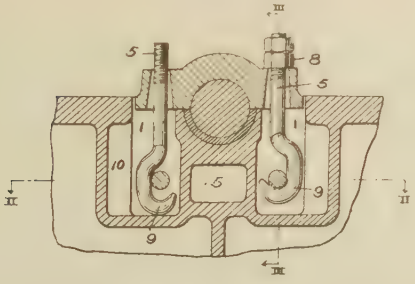
An improved moistener comprising in combination a water reservoir open at the lower end, a stopper of elastic material in the lower end of said reservoir having capillary channels in its upper part and a cavity in its lower part which gets narrow towards said capillary channels, a flat lower edge of said elastic stopper, and a sponge of porous material in the large lower part of the cavity of said stopper, substantially as described and shown and for the purpose set forth.

1,419,505. PHONOGRAPHIC SOUND BOX. WESLEY E. C. LAU, Klemme, Iowa. Filed Dec. 8, 1920. Serial No. 429,118. 2 Claims. (Cl. 274—29.)



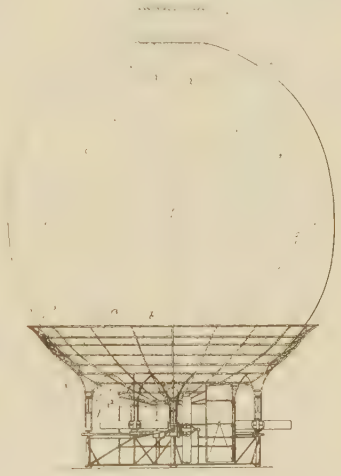
1. A sound box, a diaphragm therein, a disk of thin but relatively stiff, resilient material mounted upon the sound box exterior to the diaphragm and having a relatively small central aperture, and a stylus carrying member having at one extremity an inwardly projecting portion extending through the aperture in the disk and connected to the diaphragm, the opposite extremity resting upon and being attached to the disk, that portion of the stylus carrying member between the said extremities being in spaced relation to the disk, said stylus carrying member having an outwardly extending stylus receiving socket.

1,419,506. JOURNAL BEARING. SAMUEL MCMILLEN, Pittsburgh, Pa., assignor to Mackintosh Hemphill Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 17, 1920. Serial No. 381,881. 4 Claims. (Cl. 64—55.)



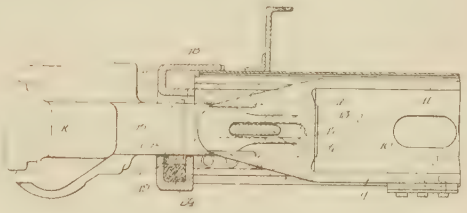
3. A body of metal having a half bearing for a journal formed therein and provided with pockets or recesses on opposite sides of the half bearing, studs or bolts extending into the pockets, the portions of the bolts in the pockets being provided with eyes, removable pins passing through openings in the walls of the pockets and the hooks of the bolts, a cap having the other half of the bearing formed therein, and means engaging the studs or bolts for holding the caps in position.

1,419,507. AIRCRAFT. GEORGE FRANCIS MYERS, New York, N. Y., assignor to Myers Aircraft Corporation, a Corporation of Delaware. Original application filed Sept. 20, 1905, Serial No. 279,281. Divided and this application filed Dec. 6, 1916. Serial No. 135,337. 24 Claims. (Cl. 244—21.)



1. An aircraft comprising a compartment, a safety device releasably secured to and normally located within the compartment, and means operative upon rapid descent of the craft for automatically releasing the safety device for the purpose set forth.

1,419,508. DRAFT MECHANISM. JOHN O. NEIKIRK, Lombard, Ill. Filed Apr. 23, 1920. Serial No. 375,954. 1 Claim. (Cl. 213—42.)

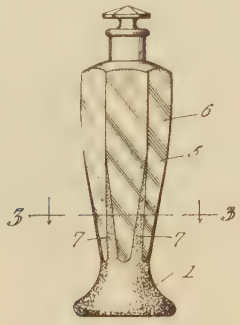


In a railway car, a carry iron, said carry iron having an integral bearing surface for directly supporting the coupler shank in one operative position of the coupler, and means carried by the carry iron for housing a wearing plate for supporting the coupler shank in another operative position of the coupler.

1,419,509. BOTTLE. LOUIS B. NEWELL, Baltimore, Md., assignor to Carr-Lowrey Glass Company, Baltimore, Md. Filed Mar. 21, 1922. Serial No. 545,502. 2 Claims. (Cl. 215—1.)

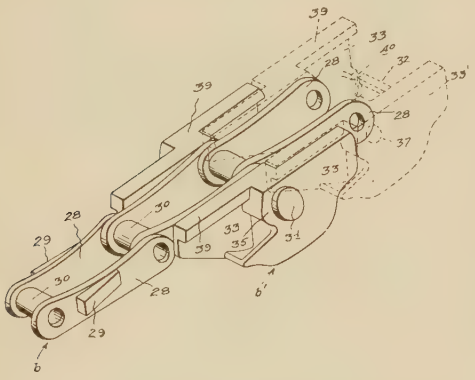
1. A one piece bottle simulating a two part structure and comprising a solid base, a container portion upstanding from the base and integral therewith and having downwardly diverging transparent faces terminating adjacent the top of the base, said base being translucent

and there being upwardly diverging translucent faces on the container and between the diverging portions of



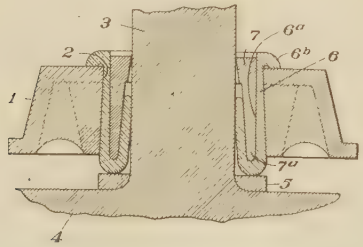
the transparent faces, thereby to simulate a pronged base holding a container.

1,419,510. TRUCK FOR VEHICLES. EMIL FRANCIS NORELIUS, Minneapolis, Minn. Filed May 27, 1920, Serial No. 384,528. Renewed May 31, 1921. Serial No. 473,868. 7 Claims. (Cl. 305—10.)



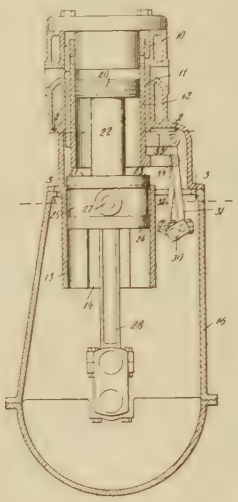
6. In a truck a pair of supporting wheels, a tread, passing over said wheels, including a chain and shoes pivotally carried at the joints between the chain links, said shoes having lapping tracks for said wheels and adapted to co-act with the chain links to prevent the tipping of the shoes by the weight of the wheels thereon.

1,419,511. SEALING STRUCTURE FOR STORAGE-BATTERY TERMINAL POSTS. PAUL E. NORRIS, Wilkinsburg, Pa., assignor to Westinghouse Union Battery Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Mar. 9, 1921. Serial No. 450,987. 4 Claims. (Cl. 204—29.)



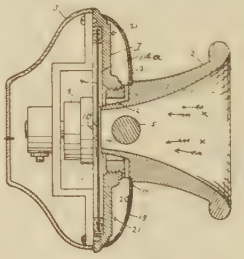
4. In an electric battery, a cell cover provided with a hole, a terminal post projecting through said hole, a gasket sleeved on said post, and a follower for spreading said gasket against the post and the wall of said hole, the upper rim of said gasket having an outwardly projecting flange which rests on the top of said cell cover outside of said follower.

1,419,512. INTERNAL-COMBUSTION ENGINE. ALDEN E. OSBORN, New York, N. Y. Filed Apr. 19, 1919. Serial No. 291,418. 12 Claims. (Cl. 123—75.)



1. An internal combustion engine comprising a crank-shaft, a piston having a pressure head, a movable valve member over which said pressure head reciprocates, said piston having a guide head and an intermediate portion spacing said guide head from the pressure head, spaced stationary guides for the guide head having a pocket therebetween, a connecting rod pin operating in said pocket and a connecting rod on said pin and connected with the crank-shaft.

1,419,513. MOUTHPIECE. HERMAN G. PAPE, New York, N. Y. Filed Sept. 11, 1919. Serial No. 323,125. 12 Claims. (Cl. 179—187.)

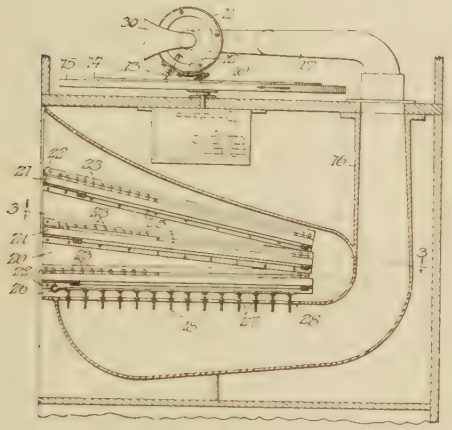


6. A hollow concave muffler designed for use with a mouthpiece of the concentrator class described having a means of exhaust at its base portion, said muffler being for location over said means of exhaust.

1,419,514. PHONOGRAPH. CARL J. PEARSON and SIGRID L. M. PEARSON, Chicago, Ill. Filed Sept. 11, 1919. Serial No. 323,189. 6 Claims. (Cl. 181—27.)

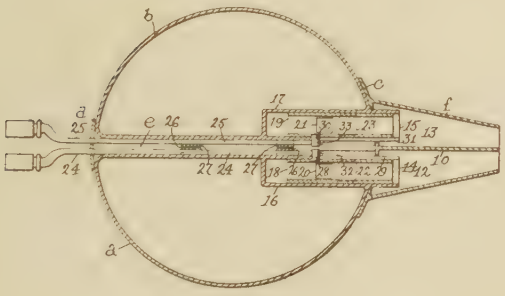
5. In a musical phonograph, a casing, a sound box mounted on said casing, an elongated horn mounted substantially horizontally in said casing beneath said sound box, a wall closing the small end of said horn, said horn

having a materially elongated opening on its lower side, and a conduit operatively connecting the sound box of said phonograph with said opening.



6. In a phonograph, a sound box, a horn, a frame mounted in said horn, a plurality of elongated elastic articles fixed to said frame and extending substantially from one end to the other of said horn, and a conduit connecting said box with said horn and arranged to direct the sound waves transversely of said articles.

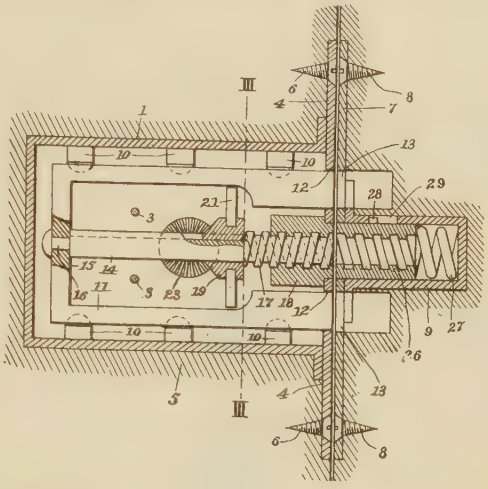
1,419,515. COMBINATION POT. COSMO PEDUTO and VINCENZO MARINO, Malden, Mass. Filed Dec. 31, 1921. Serial No. 526,220. 4 Claims. (Cl. 53—3.)



1. In a combination pot, in combination, a supporting frame provided with a handle and with a nozzle, independent liquid holding receptacles detachably secured to said supporting frame and provided with liquid outlets communicating with said nozzle, valves controlling the flow of liquid from said receptacles into said nozzle, and means for operating said valves.

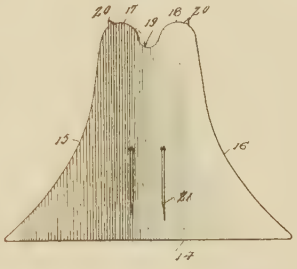
1,419,516. LOCK. JACOB J. POMERANZ, New York, N. Y. Filed Jan. 3, 1921, Serial No. 434,667. Renewed Nov. 16, 1921. Serial No. 515,692. 10 Claims. (Cl. 70—14.)

1. The combination with a lock, of a screw-threaded bolt guided therein, means for feeding said bolt longitudinally in the lock for projecting the same, a keeper, and an internally threaded sleeve to receive the threaded bolt



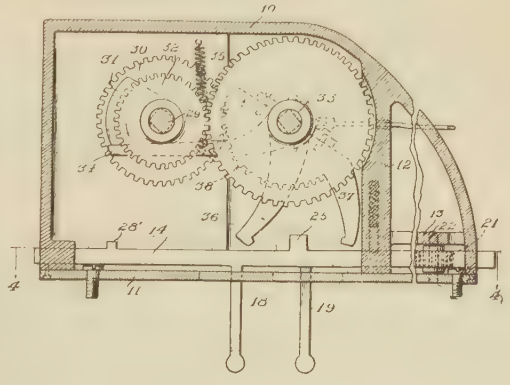
and mounted to turn in the keeper for the purpose specified.

1,419,517. FORM RETAINER FOR HATS. JOHN POWELS, New York, N. Y. Filed Apr. 4, 1921. Serial No. 458,488. 1 Claim. (Cl. 2—108.)



A device of the class described comprising a substantially triangular piece of rigid material having a notch in one corner defining a pair of spaced extensions, pins secured on one face of the material for attaching the device to the crown and spurs formed on each of the spaced extensions for securing the apex of the device to the creased portion of the crown of a hat.

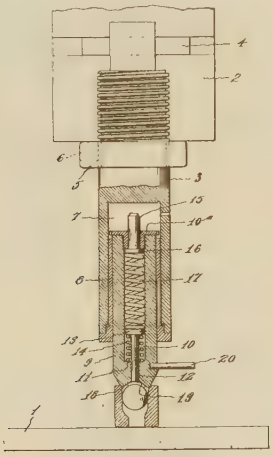
1,419,518. MECHANICAL GEAR SHIFT. GLENN T. RANDOL, Marmaduke, Ark., assignor of fifty per cent to Sol S. Steinberg, Paragould, Ark. Filed Sept. 14, 1920. Serial No. 410,185. 15 Claims. (Cl. 24—58.)



1. A speed gear shifting mechanism including companion gear shifting means, an oscillating selector for actu

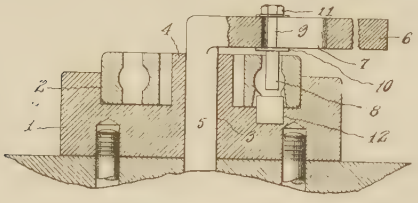
ating said means individually, means for returning any one of said first mentioned means to its original position, the selector being journaled on said returning means, and means for actuating the selector and said second mentioned means.

1,419,519. BALL-LOADING DEVICE. HUGH M. ROCKWELL, Bristol, Conn., assignor, by mesne assignments, to Standard Steel and Bearings Incorporated, Wilmington, Del., a Corporation of Delaware. Filed May 1, 1920. Serial No. 378,307. 8 Claims. (Cl. 29—84.)



1. A device for loading balls into a bearing comprising a member adapted to exert pressure tending to spread apart the adjacent surfaces of the race members and a plunger yieldingly mounted on said member and arranged to engage a ball and force the ball into operating position between the race members.

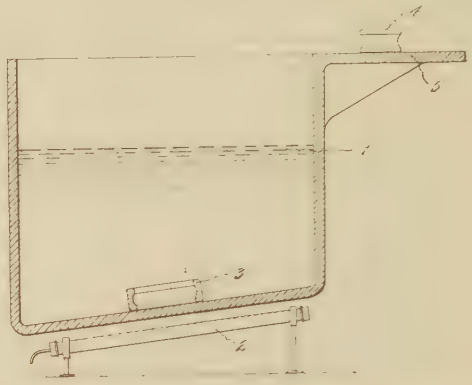
1,419,520. DEVICE FOR POSITIONING SPACING MEMBERS. HUGH M. ROCKWELL, Bristol, Conn., assignor, by mesne assignments, to Standard Steel and Bearings Incorporated, Wilmington, Del., a Corporation of Delaware. Filed May 1, 1920. Serial No. 378,308. 5 Claims. (Cl. 28—84.)



1. In a device of the character described, a bed having a socket adapted to receive two annular members of different diameters, means in said socket to retain one of said members against rotation, and means movably carried by said bed adapted to enter between said race members and to move objects from place to place in the space between said members.

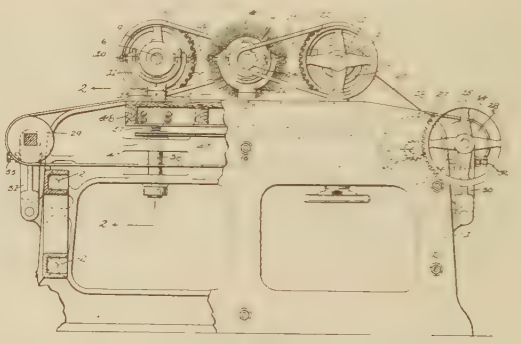
1,419,521. METHOD OF INSERTING BALLS BETWEEN RACE MEMBERS. HUGH M. ROCKWELL, Bristol, Conn., assignor, by mesne assignments, to Standard Steel and Bearings Incorporated, Wilmington, Del., a Corporation of Delaware. Filed May 1, 1920. Serial No. 378,309. 3 Claims. (Cl. 29—84.)

1. The method of inserting balls between the raceways of antifriction bearings which consists in heating the outer race member to a temperature materially in excess of that of the inner race member, applying pressure to opposed portions of the race members in directions to spread said members apart, and simultaneously forcing



a ball between the race members adjacent the points of application of said pressure.

1,419,522. LEATHER-POLISHING MACHINE. CARLETON RUHE, New York, N. Y. Filed Feb. 27, 1920. Serial No. 361,623. 11 Claims. (Cl. 149—14.)

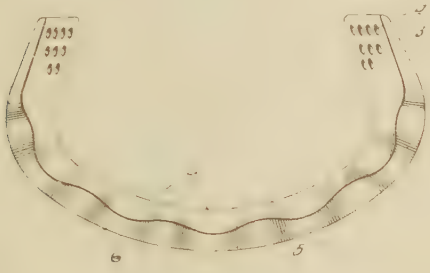


1. In a leather polishing machine the combination of a frame, a flat platform mounted between the sides of the frame independently of the conveyor, an endless conveyor passing above said platform and returning beneath the same, thus forming a flat work support for the leather to be polished, said conveyor carried by rollers mounted in the frame of the machine, a plurality of rotary brushes carried by said frame above said conveyor, means for driving said conveyor at a lower speed than that of the brushes and means for raising and lowering said platform with respect to said brushes and conveyor.

1,419,523. METHOD OF AND MEANS FOR JOINTING ELECTRIC-CURRENT CONDUCTORS. JOHANNES FRANCISCUS SCHLEPER, Amsterdam, Netherlands. Filed Apr. 20, 1922. Serial No. 555,697. 3 Claims. (Cl. 173—324.)

2. A means for joining electric current conductors, comprising a metallic case having a conical internal screw thread into which the bared ends of the conductors are held by twisting, and an insulating cap fitting on said case.

1,419,524. DREDGE-BUCKET LIP. ROBERT W. SEYMS, San Francisco, Calif., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J., a Corporation of New Jersey. Filed Aug. 4, 1920. Serial No. 401,195. 5 Claims. (Cl. 37—23.)

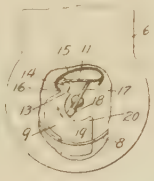


2. A dredge bucket lip having a cutting edge formed of alternate thick and thin portions, the body of the lip inwardly of the cutting edge being formed in the upper surface with corrugations corresponding to and aligned with the alternate thick and thin portions of the cutting edge, said corrugations being of gradually decreasing depth from the cutting edge.

1,419,525. WRENCH. WALTER C. SHEPPARD, Baltimore, Md. Filed Jan. 13, 1922. Serial No. 529,000. 4 Claims. (Cl. 81—176.)

4. The combination with a lever, a rack and a wrench jaw fixed on said lever and a sliding jaw on said lever, of a worm engaging said rack and having a pintle revolubly mounted in said sliding jaw, a set screw engaging said pintle to prevent the revolution of said worm and a spring engaging said set screw to yieldingly hold same.

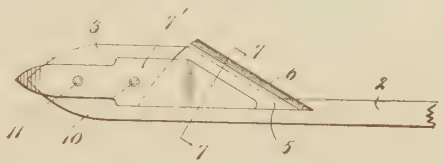
1,419,526. LOCK. ELMER B. STONE, New Britain, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut. Filed Jan. 10, 1921. Serial No. 436,137. 7 Claims. (Cl. 70—115.)



3. A lock including a bolt having a recess to receive operative engagement of a key to effect bolt movement in one direction by rotation of the key in one direction, and a nose on said bolt to operatively engage the key for bolt movement in the same direction as that of the bolt movement above described by rotation of the key in the opposite direction to the direction of rotation above described.

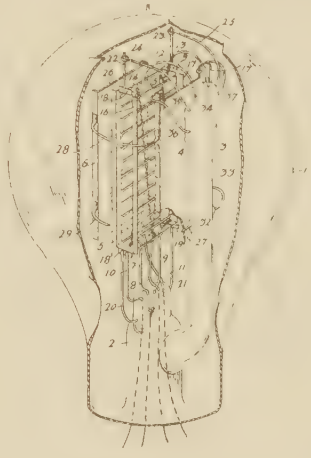
1,419,527. PILE WIRE. RALPH E. THOMPSON, Brookline, Mass. Filed Nov. 1, 1920. Serial No. 420,961. 6 Claims. (Cl. 139—63.)

1. The combination of a pile wire having near its free end a recess open at one side, a cutting blade movable laterally into and out of said recess through the open side of the latter, and a keeper arranged to extend



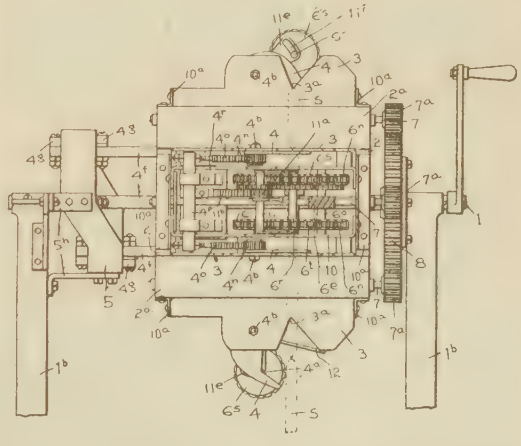
over the open side of the recess and hold the blade therein.

1,419,528. ELECTRON-DISCHARGE DEVICE. HOWARD W. WEINHART, Elizabeth, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 25, 1918. Serial No. 259,639. 21 Claims. (Cl. 250—27.)



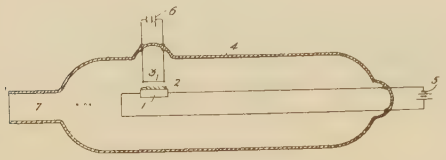
1. An electron discharge device comprising a gas tight envelope, several electrodes within said envelope, rigid supporting connections for said electrodes, and a loose guiding connection for certain of said electrodes.

1,419,529. SAUSAGE-LINKING MACHINE. CHARLES J. WILL, Granite City, Ill. Filed Oct. 25, 1921. Serial No. 510,236. 16 Claims. (Cl. 17—6.)



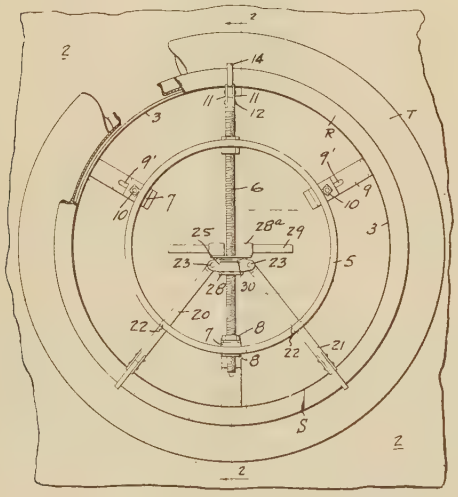
1. In a machine for twisting stuffed sausage casings into links, the combination of twisting rollers, pinching devices at opposite ends of the rollers, and means adapted to cause a slack in the casing between the pinching devices prior to the twisting operation.

1,419,530. THERMIONICALLY-ACTIVE SUBSTANCE. WILLIAM WILSON, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 12, 1918. Serial No. 249,523. 2 Claims. (Cl. 250—27.)



1. A filament comprising a core of a ductile metal of the iron group and a coating of strontium and barium oxides, said filament having a degree of thermionic activity comparable to that of a platinum filament similarly coated and operated under similar conditions.

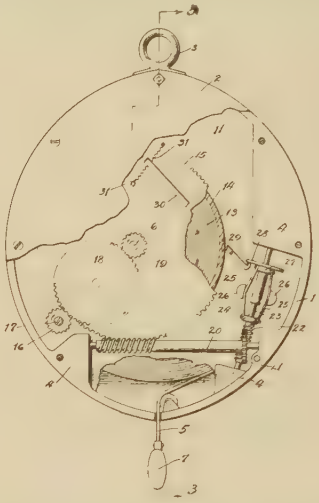
1,419,531. CARRIER AND RETRACTOR FOR WHEEL RIMS AND TIRES. WONG YOU, San Francisco, Calif. Filed Jan. 19, 1921. Serial No. 438,353. 3 Claims. (Cl. 224—29.)



1. A rim carrier having a frame and adjustable brackets for attaching to it a circular support, a set of arms radially slidable in the frame and having rim-engaging jaws, a slide connecting the arms and a screw for shifting the slide and the arms to secure or relase an applied rim, one end of the screw supporting the rim.

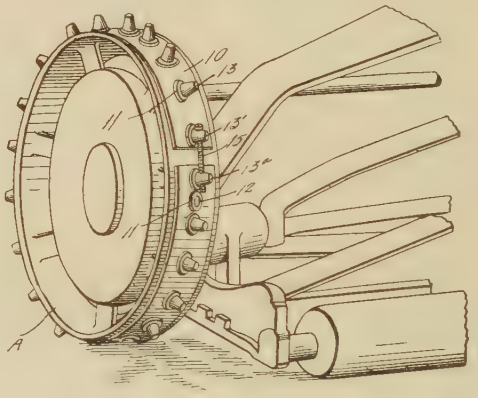
1,419,532. FIRE ESCAPE. CECIL C. ABBOTT, Harbor Springs, and WILLARD EARL BASSETT and BERT LESLIE BASSETT, Detroit, Mich., assignors of one-fourth to Irvin L. Bassett, Detroit, Mich. Filed Dec. 9, 1920. Serial No. 429,409. 1 Claim. (Cl. 254—157.)

A portable fire escape comprising a casing provided with anchoring means, a partition within the casing, a shaft journaled in the ends of the casing and passing through the partition, a drum loose on said shaft at one side of the partition, a spring secured at its inner end to the partition adjacent the shaft and secured at its outer end to the drum and wound within the drum, a flexible body-carrying device attached to and wound about the shaft at the opposite side of the partition and depending through the side of the casing, a gear fixed on the shaft, a countershaft, an elongated gear on the countershaft, an idler mounted on the adjacent end of the casing between and meshing with said gears, a gear on the drum also meshing with the elongated gear on the countershaft, a governor shaft driven by the gear on the drum, a speed governor



mounted upon the governor shaft, a brake disk carried by the speed governor, and a brake shoe mounted in the casing in position to be engaged by the brake disk.

1,419,533. TRACTION BAND. BRODIE H. ASHBY, Dallas, Tex. Filed Aug. 1, 1921. Serial No. 488,852. 3 Claims. (Cl. 301—40.)

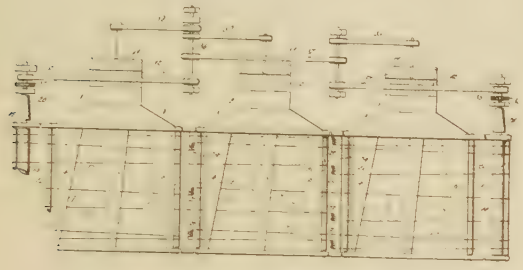


3. A traction band of the character described, including, an elongated metallic band having spaced openings surrounded by upset sockets, tapered studs engaging in said openings and having enlarged heads seated in said sockets, said heads being exposed on the inner side of the band to contact with the tread of the wheel, and means for fastening the ends of the band together and drawing the same taut around the wheel.

1,419,534. PAPER-DRYING MACHINE. WILLIAM M. BARBER, Somerville, Mass. Filed June 29, 1920. Serial No. 392,824. 12 Claims. (Cl. 34—48.)

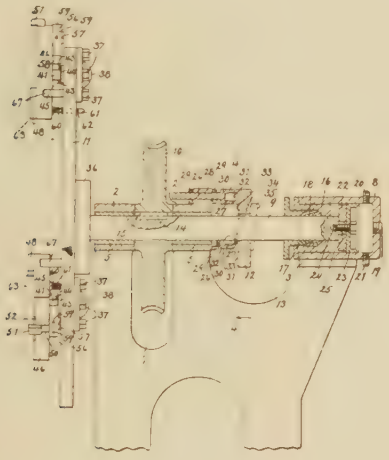
10. In a machine for drying paper in a continuous web, series of air-distributing ducts arranged in adjacent lines and by and between which the web runs in reverse directions, said ducts being provided with openings by which air compressed therein may be directed to issue therefrom against said web, means for supplying air under compression to the ducts, a number of conveyors each comprising a number of endless spaced belts adapted to receive and support the web and carry the same by and between said ducts, means for simultaneously operating

said conveyors to run in reverse directions according to the variation in the direction of running of said web, and



means for controlling the speed of said conveyors, said ducts being arranged whereby the air emanating therefrom will act to hold the web onto the said endless belts.

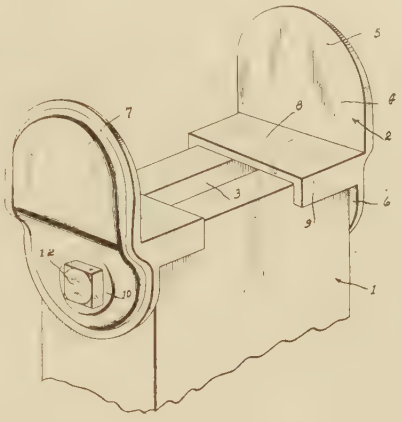
1,419,535. DISK-GRINDER ATTACHMENT. GEORGE R. BARKSDALE, Stratford, Ontario, Canada. Filed Nov. 19, 1920. Serial No. 425,246. 20 Claims. (Cl. 51—237.)



1. In an attachment, of the class described, a revoluble and reciprocable shaft, a cam mounted on said shaft, an abutment, and yielding means to retain said cam in contact with said abutment, said shaft being provided with work-holding means.

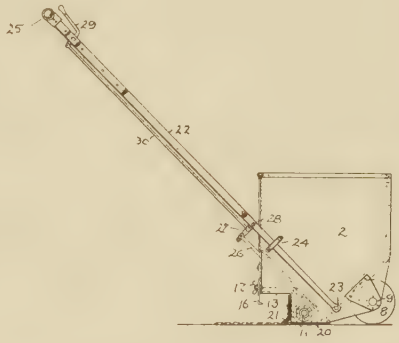
1,419,536. CONDUIT SUPPORT. GEORGE E. BECK, Cleveland, Ohio, and THOMAS E. KIRKPATRICK, Lake Worth, Fla. Filed Feb. 10, 1921. Serial No. 443,961. 1 Claim. (Cl. 72—84.)

A conduit support comprising a post having a vertically elongated opening extending transversely through its upper end portion and a cap comprising a pair of sections each consisting of a body having a web outstanding from one face thereof and disposed above the upper end of the post, a cheek piece projecting above the said web, a cheek piece projecting below the web, the said web at its opposite lateral edges being provided with outstanding flanges embracing the opposite side faces of the post to center the cap section upon the upper end of the post when disposed thereon, each cap section being provided with a bolt opening to be brought into communication with the corresponding end of the opening in the post when the section is properly centered with relation thereto, by engagement of the side flanges with the faces of the post, and a bolt



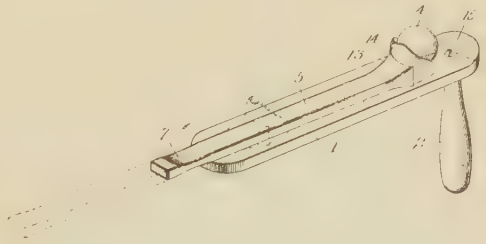
fitted through the bolt openings and securing the sections to the post and extending through the said opening in the post.

1,419,537. CEMENT SPREADER. CHARLES J. BELLAR, Cleveland, Ohio, assignor to The Cuyahoga Parts Company, Cleveland, Ohio, a Corporation. Filed Dec. 13, 1920. Serial No. 430,189. 10 Claims. (Cl. 94—44.)



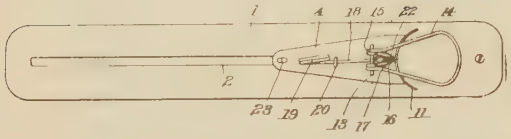
10. A spreading machine comprising a receptacle having a distributing compartment at its bottom and wheels at its front within said compartment adapted to support said receptacle in a rolling movement over a floor.

1,419,538. BALL PROJECTOR. FRANK BLANDO, New York, N. Y. Filed Sept. 20, 1921. Serial No. 501,901. 5 Claims. (Cl. 124—1.)



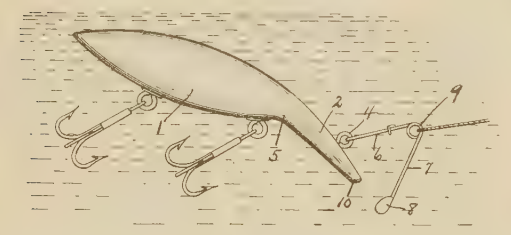
1. In a ball projector, the combination with a base plate, of a slide mounted thereon, resilient means for moving said slide along the base plate, and a deflecting piece on the base plate in the path of a ball projected by said slide for the purpose specified.

1,419,539. BALL PROJECTOR. FRANK BLANDO, New York, N. Y. Filed Oct. 11, 1921. Serial No. 507,098. 7 Claims. (Cl. 124—1.)



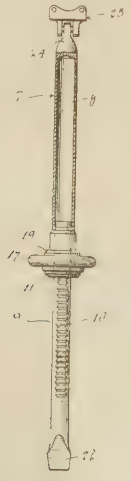
1. In a ball projector, the combination with a base plate, of a slide mounted thereon, resilient means for moving said slide along the base plate in one direction, means for retaining a ball in engagement with the slide while the latter is moved in the other direction and said resilient means is being tensioned and means for automatically freeing said ball from said retaining means when the slide is released.

1,419,540. WEED ATTACHMENT FOR FISHING BAIT. WILLIAM C. BROWN, Syracuse, N. Y., assignor to Joseph K. Rush, Syracuse, N. Y. Filed Sept. 11, 1918. Serial No. 253,575. 8 Claims. (Cl. 43—39.)



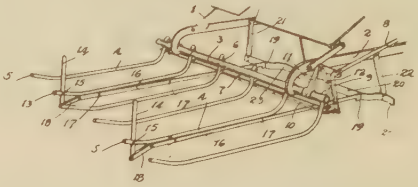
1. An artificial bait comprising a body, a fish hook secured to said body, a guard member comprising a pair of diverging parts having their adjacent ends connected, one of said parts having its free end formed with means for securement to the bait body, said part adapted to constitute a portion of the draft means for the bait and the other part adapted to deflect matter from contact with a portion of the front end of the bait.

1,419,541. CIRCLE BRACE. WILLIAM H. BURSTALL, Oxnard, Calif., assignor of one-half to Walter Adamson, Oxnard, Calif. Filed Jan. 12, 1920. Serial No. 350,761. 4 Claims. (Cl. 255—35.)



1. A circle brace comprising telescopically adjustable sections, one of said sections having a longitudinally extending series of serrations, and means engaging said serrations to maintain said sections in adjusted relation, said means including a member movable in an arc relative to the longitudinal axes of said sections.

1,419,542. ATTACHMENT FOR BUNDLE CARRIERS. NEIL MACLEAN CAMERON, Shoal Lake, Manitoba, Canada. Filed Apr. 26, 1920. Serial No. 376,778. 4 Claims. (Cl. 56—475.)



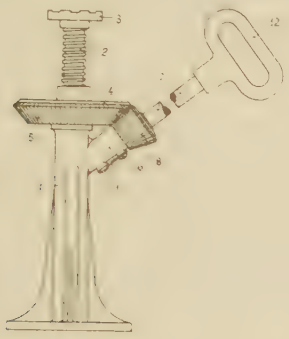
1. In a bundle carrier, the combination with sheaf receiving and bundle forming teeth and means for operating the teeth to discharge the bundle and return to the original sheaf filling position, of sheaf retainers located at the outer ends of selected bundle carrier teeth and means for controlling the retainers automatically operating to hold them in a fixed position in the sheaf filling position of the carrier teeth to release them in the discharging movement of the carrier teeth and to reset them in the initial position upon the carrier teeth returning to the original sheaf receiving position.

1,419,543. MOP WRINGER. FREDERICK CRAIB and JAMES BARNETT, Martinez, Calif. Filed Oct. 27, 1920. Serial No. 420,021. 1 Claim. (Cl. 15—120.)

A mop wringer comprising a handle; a sleeve fixedly secured upon one end of the handle; a stirrup formed integrally with said sleeve and extending in longitudinal alignment with the handle to receive one end of a mop; a mop head arranged to engage the other end of said mop; a guide pivotally mounted upon the sleeve and having a spiral bore therein; a spiral shank secured upon the mop head and passing upwardly through the spiral bore of the guide, said guide operating to impart a rotative movement to the shank and mop head when said shank is moved longitudinally therethrough; an operating lever pivotally mounted upon one side of the handle; bifurcations formed upon the lever and extending past the handle upon either side thereof; means for rotatably

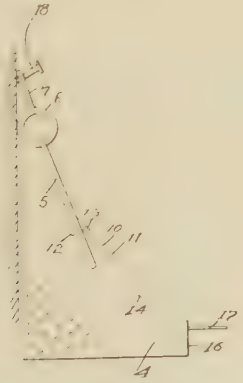
connecting the shank to said bifurcations whereby rotative movement of the shank and head will operate to move the lower end of the mop into engagement with the stirrup and twist said mop between the head and the stirrup when said operating lever is actuated to move the shank longitudinally through the guide; and means for returning said mop head to a normal position after each operation.

1,419,544. SCREW JACK. FRANCESCO DE BENEDETTI, Turin, Italy. Filed Nov. 29, 1919. Serial No. 341,496. 3 Claims. (Cl. 254—103.)



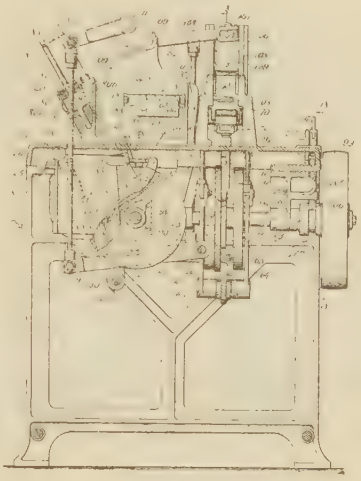
1. A screw jack comprising a stand, a gear rotatably mounted on its top and having its hub formed with a threaded axial opening, a threaded lifting spindle engaged in said opening; a seat in said stand for rotatably mounting the end of a bar, an actuating bar adapted to be removably engaged in axial direction in said support and a pinion rigid on said bar and adapted to mesh with said gear when said bar is located in its seat.

1,419,545. SOAP HOLDER, STRAINER, AND SCOOP. JOHN N. DELL, San Francisco, Calif. Filed Apr. 14, 1921. Serial No. 461,330. 1 Claim. (Cl. 45—28.)



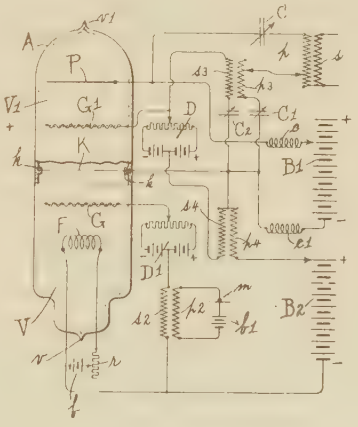
A combined soap holder and strainer consisting of a pyramidal body having a plurality of openings adjacent its apex, a bail pivotally mounted on said body and movable to a plurality of positions with respect thereto, lugs on the sides of the body to secure the bail in several positions with respect to said body, and a projecting lip to assist in using said strainer as a scoop against which said bail bears when in one position.

1,419,546. LABELING MACHINE. EDWIN DONALDSON, Brooklyn, N. Y. Filed Feb. 27, 1920. Serial No. 361,867. 86 Claims. (Cl. 216—54.)



1. In a labeling machine, a label support, an adhesive applying arm swinging toward and away from said support at one side thereof and a second adhesive applying arm swinging toward and away from the support at the opposite side thereof.

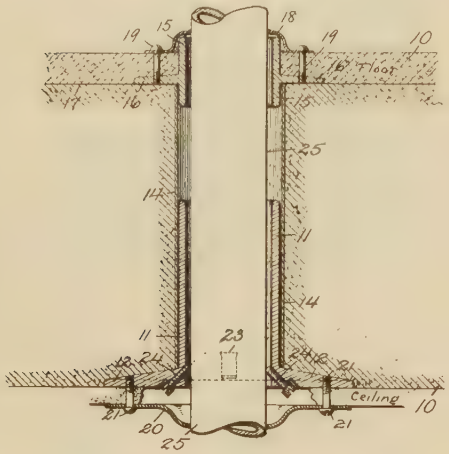
1,419,547. ELECTRONIC APPARATUS. CORNELIUS D. EHRET, Philadelphia, Pa. Filed Nov. 12, 1918. Serial No. 262,133. 33 Claims. (Cl. 250—27.)



1. Thermionic apparatus comprising a plurality of cooperating thermionic devices each comprising an anode, a cathode and a grid, the anode of one of said devices being the cathode of another of said devices, the grid-cathode circuits of said devices being independent of each other, and a coupling between circuits of said devices.

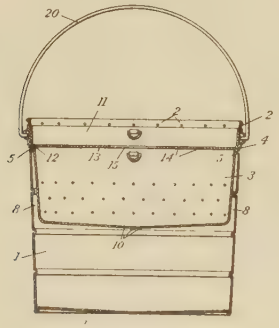
18. Thermionic apparatus comprising a plurality of cooperating thermionic devices each comprising an anode, a cathode and a grid, the anode of one of said devices being the cathode of another of said devices, and means for normally holding each of said grids independently of the other at a predetermined negative potential.

1,419,548. INSERT FOR CEMENT OR SIMILAR FLOORS. CHARLES H. FAY, Newark, N. J. Filed Sept. 25, 1919. Serial No. 326,339. 10 Claims. (Cl. 126—317.)



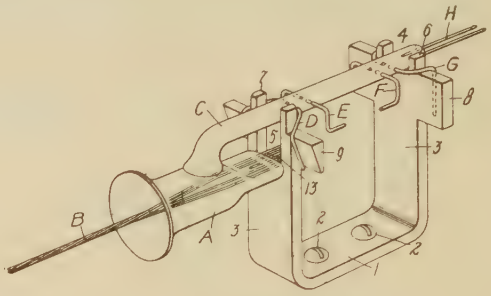
1. An insert for concrete or similar floors comprising a lower tubular member with an annular flange at the bottom, said flange having anchor elements on its top face, an upper tubular member with an annular flange, a metal sleeve between the flanges and enclosing the inner ends of the members, and means in one of said tubular members for supporting a pipe, said flange serving as a member for securing the support on centering so as to withstand the pouring of cement around the member.

1,419,549. CONTAINER FOR TRANSPORTING LIVE FISH. EDGAR C. FEARNOW, Capitol Heights, Md. Filed Mar. 6, 1922. Serial No. 541,500. 10 Claims. (Cl. 119—5.)



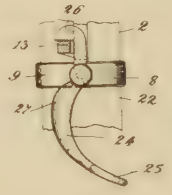
1. A receptacle of the class described provided with means for retaining live aquatic animals, such as fish, and the like, near the surface of the water in the receptacle so that the swimming efforts of the live animals will aerate the water by splashing it through the air of the receptacle, said retaining means having a substantially imperforate bottom and a body pierced by a number of small widely spaced apertures to jet the water forced therethrough to aerate the same, the greater number of said apertures being preferably spaced above the normal surface of the water contained in the receptacle.

1,419,550. BENDING JIG. FREDERICK C. FISCHER, Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 19, 1919. Serial No. 339,181. 9 Claims. (Cl. 153—11.)



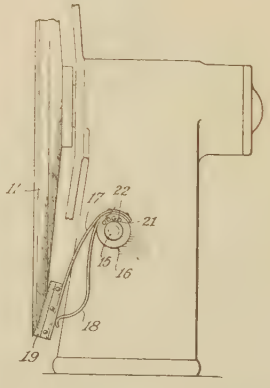
1. A jig for the supporting wires of a vacuum tube stem comprising a support having a depressed seat adapted to receive said stem and upstanding posts adjacent said seat around which the wires may be formed.

1,419,551. TELEPHONE ACCESSORY. JOSEPH FLEISCHMAN, New York, N. Y. Filed May 22, 1920. Serial No. 383,445. 11 Claims. (Cl. 179—178.)



1. In a telephone set, in combination, a receiver hook, a holding hook therefor having a fixed pivot below said receiver hook, said hook having a weighted portion below said pivot to bias the same to operative position and an inclined uppermost edge whereby the receiver hook may be released by light pressure upon said weighted portion and be returned to and retained in non-signaling position by simple depression thereof.

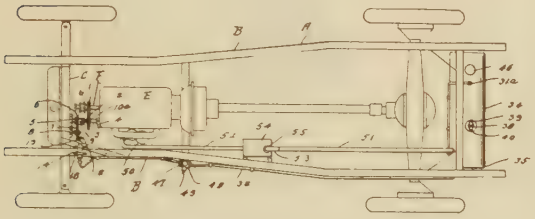
1,419,552. MEAT-SLICING MACHINE. EDWARD G. FREED, Dayton, Ohio, assignor to The Computing Scale Company, Dayton, Ohio, a Corporation of Ohio. Filed Feb. 25, 1921. Serial No. 447,779. 6 Claims. (Cl. 17—24.)



1. In a meat slicing machine, in combination, a rotating knife, a grinder box into which said knife projects,

and means cooperating with said knife, and located between the point of cutting and said grinder box, for removing particles of meat adhering to said knife, whereby the collection of meat particles in the grinder box is minimized.

1,419,553. COMPRESSED-AIR FEED FOR AUTOMOBILES. WILLIAM M. GALLOWAY, Vera, Tex. Filed Sept. 1, 1920. Serial No. 407,322. 2 Claims. (Cl. 158—36.)



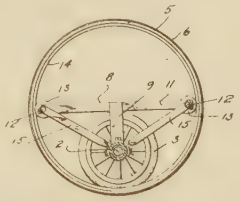
1. In an automobile fuel supply system having a fuel supply tank and a pipe to lead compressed air thereto, a three-way valve in the pipe operable selectively to permit the supply of compressed air to the tank or convert it to another source of use.

1,419,554. GAME APPARATUS. FRANKLIN W. GANSE, Brookline, Mass. Filed Sept. 20, 1919. Serial No. 325,101. 3 Claims. (Cl. 46—59.)

1. In a game apparatus, the combination of a ball, a series of elevated ball receptacles adapted to be supported in spaced relation, a serving station for each of said receptacles arranged adjacent to a preceding receptacle of the series, and racket like means to impel the ball toward and into said receptacles.

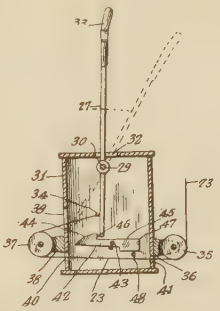
1,419,555. DRIVING MECHANISM. SPENCER GARWOOD, East Liberty, Ohio. Filed Nov. 30, 1920. Serial No. 427,358. 1 Claim. (Cl. 305—5.)

In a motor vehicle, the combination with the rear axle construction thereof including a stationary housing and a drive shaft, a driving wheel fixed to rotate with said shaft, a relatively enlarged tread wheel arranged to receive and surround said driving wheel, the inner periphery of said tread wheel constituting an endless circular track for said drive wheel, a bracket arising vertically and rigidly from said housing, a horizontally disposed bar rigidly connected with the upper end of said bracket, rollers mounted upon the outer ends of said bar and disposed to engage with an annular guiding rib provided



upon the inner periphery of the tread wheel, and diagonal braces extending from said housing to the outer ends of said bar.

1,419,556. GATE CONTROL FOR FLOUR BINS. EUGENE GASE, Saginaw, Mich., assignor to Baker-Perkins Manufacturing Corporation, Saginaw, Mich. Filed Sept. 27, 1920. Serial No. 413,216. 4 Claims. (Cl. 214—16.)

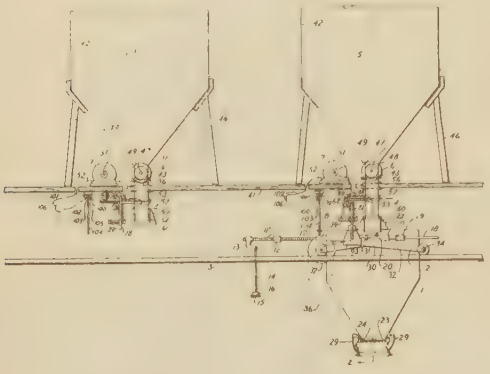


1. In apparatus of the kind described, the combination with a plurality of bins, of gate valves, one for each bin, of movable shutters for opening and closing the said valves, of resilient means connected to one end of the said shutters and so adapted as to keep the said valves normally closed, of flexible, but inelastic means attached to the opposite end of the said shutters, of a stationary support, of a shaft rigidly affixed in the latter, of levers, one for each of the said valves, each lever turning round the said shaft and connected at such a point to one of the said flexible, but inelastic means, that, when the said lever is turned, the resistance of the said resilient means, keeping the valve belonging thereto shut, is overcome, and the latter is opened, of a shaft rotatably mounted in the said support, of counter-weighted pawls corresponding to the said levers, rigidly affixed to the last named shaft and provided with notches, the said levers, the said pawls and their notches being so arranged that, when any one of the said levers is turned, it catches in the notch of the corresponding pawl, as soon as the corresponding gate valve has been completely opened, and is locked in this position by the heavier parts of all the said pawls dropping, and of curved surfaces, one arranged at each of the latter in front of its notch in such a manner that, when anyone of the said levers is turned for opening its corresponding gate valve and slides along such surface, the heavier parts of all the said pawls are lifted, whereby any other of the said levers retained in the notch of its pawl is released therefrom and the corresponding gate valve closed.

1,419,557. AUTOMATIC WEIGHING MACHINE. EUGENE GASE, Saginaw, Mich., assignor to Baker-Perkins Manufacturing Corporation, Saginaw, Mich. Filed Dec. 4, 1920. Serial No. 428,257. 24 Claims. (Cl. 249—14.)

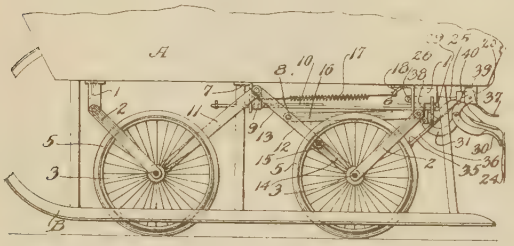
1. In a machine of the kind described, the combination with a balance, of a truck supporting the fulcrum of

the said balance, of rails for the said truck to run on, of a telescopic feeding chute, consisting of a stationary inner tube and a heavy outer tube sliding on the lower half of the former, of a shutter provided in the upper half of the said stationary tube, of flexible, but inelastic means



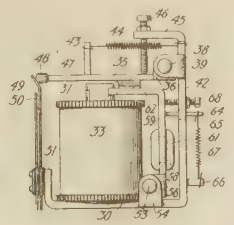
tightly stretched between the said shutter and the top of the said sliding tube in such a manner that the latter, when lowered, keeps in consequence of its weight the former open, and of means for closing the said shutter, thereby raising the said sliding tube at the same time.

1,419,558. WHEEL ATTACHMENT FOR SLEIGHS OR SLEDS. GEORGE J. GODIN, Rochester, N. H. Filed June 13, 1921. Serial No. 477,099. 8 Claims. (Cl. 280—11.)



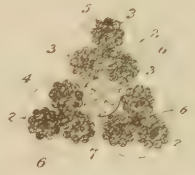
1. The combination with a sleigh, of front and rear axles therefor, a pair of wheels carried by each axle, a hanger for each axle pivotally connected thereto at one end and at the opposite end to the sleigh, a member mounted for reciprocation in fixed bearings beneath the sleigh body, means connecting said reciprocating member with said axles whereby to raise and lower said wheels upon movement of said member in opposite directions, means for moving said reciprocating member in said opposite directions, and latch means for engaging said reciprocating member to hold the wheels in lowered position.

1,419,559. ELECTROMAGNETIC DEVICE. HAROLD W. GOFF, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 6, 1919. Serial No. 275,354. 9 Claims. (Cl. 175—337.)



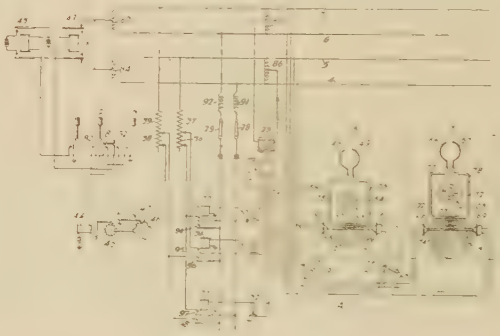
1. An electromagnet having a plurality of independently movable armatures, a common energizing winding for moving said armatures, means on one of said armatures for delaying the movement thereof and means for adjusting the travel of each armature independently of the other armatures.

1,419,560. CABLE. THOMAS GORE, Brooklyn, N. Y. Filed June 2, 1921. Serial No. 474,408. 1 Claim. (Cl. 117—59.)



A cable comprising: a plurality of ropes twisted together, each rope consisting of a plurality of strands, and each strand consisting of a plurality of twisted wires served with a plurality of yarns, said yarns producing a cushioning effect not only between the twisted strands of each rope but also between the twisted ropes of the cable.

1,419,561. SWITCHING SYSTEM. JOHN B. HARLOW, Upper Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 24, 1919. Serial No. 306,407. 10 Claims. (Cl. 177—352.)

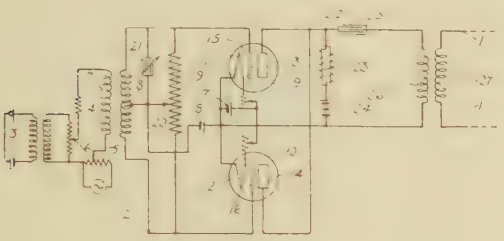


1. In a selective switching system, a phantom circuit having a selecting station and a plurality of selectable stations connected therewith, a selector at each selectable station having a polarized electromagnet responsive to alternating current impulses received over the phantom circuit, a source of direct current, an impulse sending device at the selecting station controlling the connection of the course of current with the phantom circuit, means controlled by the sending device for intermittently reversing the polarity of the source of current during the operation of the sending device, a plurality of telephonic transmitters at each selectable station, means controlled by the selectors for connecting the associated transmitters with the side circuits comprising the phantom circuit and a source of alternating current, and a telephonic receiver associated with each side circuit at the selecting station.

1,419,562. MODULATOR OR DETECTOR. RALPH V. L. HARTLEY, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 29, 1919. Serial No. 327,331. 8 Claims. (Cl. 179—171.)

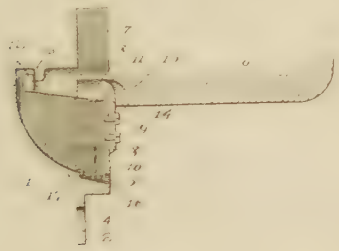
1. A balanced modulator comprising two similar discharge devices each having a cathode, a control element and an anode, said cathodes being connected directly to-

gether, a circuit for causing equal and opposite instantaneous variations of the potentials of said control elements



by a wave to be modulated and a modulating wave, and a single substantially non-reactive connection between said circuit and said cathodes.

1,419,563. DEVICE FOR USE IN CLIMBING POLES. WILLIAM L. HORNING, Davenport, Iowa. Filed Dec. 18, 1919. Serial No. 345,868. 5 Claims. (Cl. 228—47.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



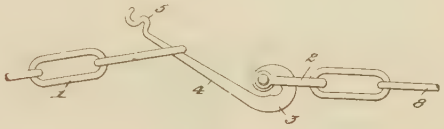
1. A device for use in climbing poles, comprising, in combination, a supporting-member comprehending a shell insertible in a cavity in a telegraph-pole, or the like, and carrying a fulcrum-member having a curved top, and a step-member projecting into said shell and tiltable on said curved top.

1,419,564. NUT LOCK. RICHARD T. HOSKING, Saginaw, Mich., assignor to Shakeproof Screw & Nut Lock Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 11, 1918. Serial No. 257,795. 2 Claims. (Cl. 151—35.)

1. A nut lock comprising a washer having radially projecting teeth of thin spring material, each tooth of suitable cross-sectional shape to adapt it to rolling movement between the faces of the work and nut when the nut turns in reverse direction, said tooth when so rolled presenting its long diameter between said faces whereby to exert thrust tending to force said work and the nut apart and to thereby lock them against further relative rotation.

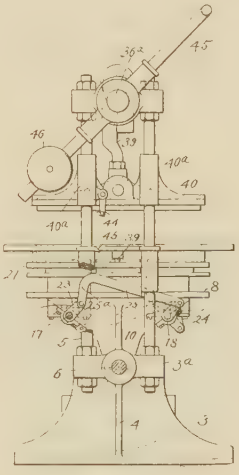
1,419,565. LATCH FOR CHAINS. EDWIN M. HOWG, Lennox, S. Dak. Filed Sept. 9, 1921. Serial No. 499,417. 4 Claims. (Cl. 24—68.)

1. In a non-skid chain for tires, a chain, a latch comprising a hook-shaped member connected thereto, and a spiral formation on one arm of said hook-shaped member, said spiral extending through at least 360°, relative move-



ment of the chain links permitting co-operative engagement of the spiral formation and one of the links.

1,419,566. MOLDING MACHINE. FRANKLIN M. ILER, Cleveland, Ohio. Filed Sept. 11, 1919. Serial No. 323,099. 12 Claims. (Cl. 22—32.)

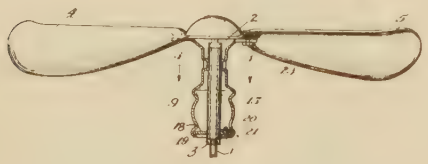


8. In a molding machine, a base member, a molding table pivotally mounted upon the base member and capable of being moved to a position substantially at right angles with respect to the base member, a stripping plate mounted upon the molding table, a pattern plate having patterns thereon which are adapted to extend through suitable openings in the stripping plate, means for raising and lowering the pattern plate, means carried by the stripping plate for retaining and supporting a flask when the table is moved about its pivot.

1,419,567. HAMMER GAUGE. PETER F. JOHNSON, Oakland, Calif. Filed Sept. 7, 1920. Serial No. 408,683. 1 Claim. (Cl. 33—143.)

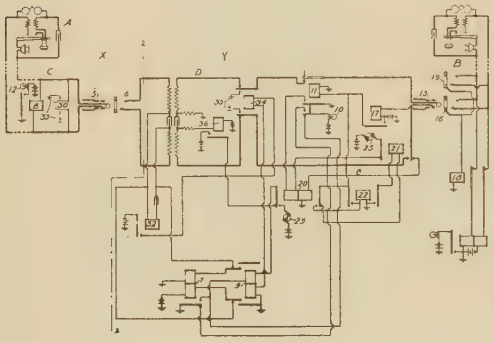
In a measuring scale the combination with a tool handle, of a flexible gauge slidable thereinto, a washer on the end of the handle through which the gauge slides, and a spring carried by said washer and adapted to bear upon the gauge to hold it in any desired adjustment.

1,419,568. HUB. EDWIN JUELSON, Chicago, Ill., assignor to American Aero Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 31, 1920. Serial No. 370,152. 10 Claims. (Cl. 170—173.)



1. In a fan structure, in combination with a shaft, a sleeve loosely mounted thereon and having flat faces, a holder surrounding said sleeve and bearing with depressions against said flat faces, and fan blades detachably secured to said holder.

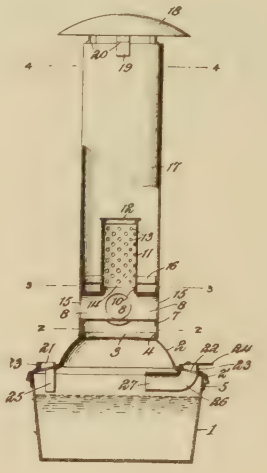
1,419,569. TELEPHONE-EXCHANGE SYSTEM. CHARLES W. KECKLER, Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 30, 1917. Serial No. 199,235. 9 Claims. (Cl. 179—49.)



2. A telephone exchange system comprising a telephone line, a link circuit connected with the line, a second link circuit comprising a normally open talking strand, a signaling device, and a relay normally connected with the talking strand and initially energized thereover upon connection of the second link circuit with the telephone line, interrupter mechanism brought into operative relation with the signaling device by the operation of the relay to cause the intermittent operation thereof, circuit connections rendered effective upon the disconnection of the first link circuit from the line for causing the continuous operation of the signaling device, and a relay also responsive to the disconection of the first link circuit from the line for disconnecting the first mentioned relay from the talking strand and closing the talking strand.

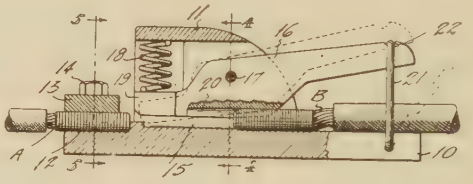
1,419,570. ORCHARD HEATER. HERMAN D. KELLER, Coldwater, Mich., assignor to Kell-Oil Heater Company, Coldwater, Mich., composed of Herman D. Keller, Mary J. Keller, Herman J. Keller, Louis B. Keller, John G. Keller, Mary A. Morris, Catherine C. Parisian, and Frank H. Keller. Filed May 6, 1921. Serial No. 467,501. 14 Claims. (Cl. 158—91.)

3. A heater, comprising a fuel receptacle, a cover for said receptacle provided with air inlets, an air intake chamber mounted on the cover, an air distributer mounted on and in communication with said air intake, said air intake comprising a plurality of passages intersecting at a common point, a passage providing a communication between the air intake and the air distributer at the point of intersection of the passages, a chimney dis-



posed on the intake and concentric with the air distributer, and a passage providing communication between the fuel receptacle and the chimney.

1,419,571. MOTOR TERMINAL CONNECTION. ISAAC E. KINSER, Dallas, Tex. Filed Jan. 22, 1921. Serial No. 439,071. 5 Claims. (Cl. 173—324.)

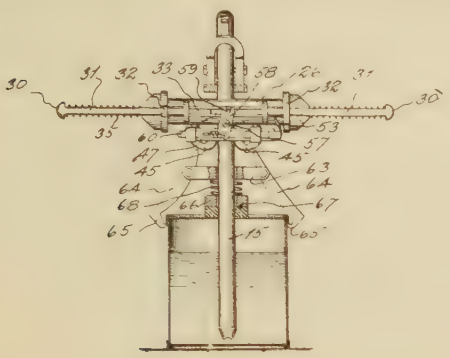


4. In an electrical terminal connector, a metallic base adapted for electrical connection in a circuit, a housing mounted upon the base and projecting laterally therebeyond, a lever pivoted within the housing and having a clamping portion adapted to be arranged approximately parallel with the base when in its holding position, said clamping portion being movable toward and away from the base, a spring arranged within the housing and engaging the end of the lever upon the opposite side of its pivot with respect to the clamping portion and adapted to shift the clamping portion away from the base when the lever is released, and an element engaging over the lever to retain the same in the inner position, the spring serving to hold the lever in engagement with the retaining element.

1,419,572. LIQUID-DISPENSING PUMP. JOHN KOSMAN and MARCIN GRZESIK, Brooklyn, N. Y. Filed Apr. 23, 1921. Serial No. 464,038. 2 Claims. (Cl. 221—74.)

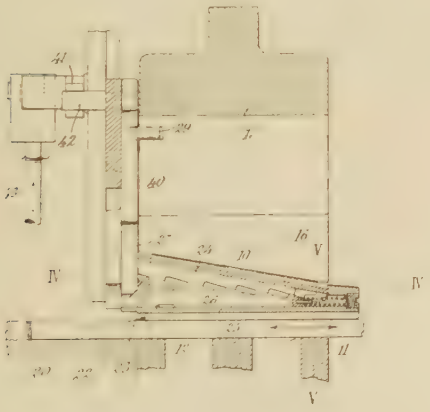
1. A liquid dispensing pump comprising a hollow stem curved semi-circularly in its upper portion, its lower straight portion being enterable into a container, means for securing said stem to the walls of the container, a gate valve at the extremity of said curved portion, a casing circumjacent said lower portion, said casing termi-

nating at a point above the end of the lower portion, an air pump arranged transversely of said stem, said pump



delivering air to the space between said stem and said casing, and means whereby said pump may be manually operated.

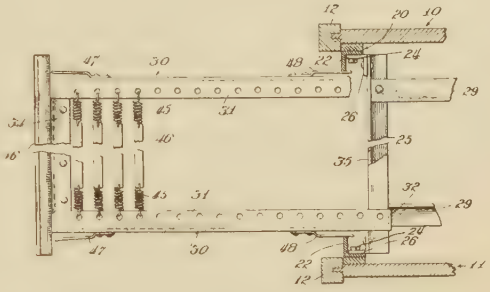
1,419,573. CAN-BODY-FORMING MACHINE. PETER KRUSE, Brooklyn, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y., a Corporation of West Virginia. Filed Feb. 24, 1920. Serial No. 360,819. 5 Claims. (Cl. 113—11.)



1. A can body forming machine adapted to form bodies with different shaped ends, comprising a correspondingly shaped horn, a closely adjacent ledge between which and the horn a body blank moves, feed means on said ledge for ejecting a body from said horn, and means acting in timed relation with said feed means for separating said horn and ledge to an extent permitting the rear end of a body formed on the horn to pass over the front end of a horn in a position wherein its outline coincides most nearly with the outline of the front end of said horn, said feeding means and said means for separating the horn and ledge acting simultaneously, whereby said body is not substantially lifted from said ledge during the ejection.

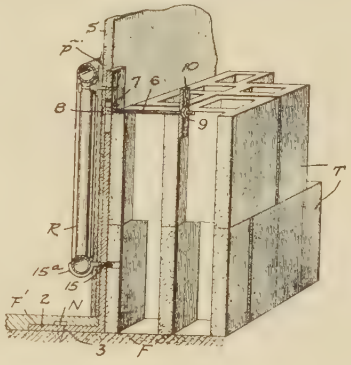
1,419,574. EXTENSIBLE BED. WILLIAM E. LAWSON, Chicago, Ill., assignor to Englander Spring Bed Company, New York, N. Y., a Corporation of New York. Filed June 18, 1920. Serial No. 389,861. 5 Claims. (Cl. 5—8.)

3. An extensible bed comprising telescoping front and rear bed sections, each section comprising end frames and side bars, each frame including vertical members and an intervening horizontal member, spring tongues secured to the opposite ends of each horizontal member of the end frames of the front section and operative to engage the vertical members of the end frames of the rear section to guide the sections into proper nested and extended position and to yieldingly hold them in said positions while leaving them free for easy movement in inter-



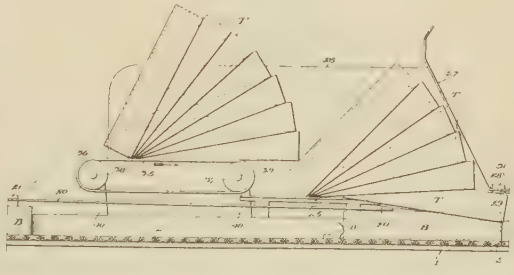
mediate positions, the posts of the end frames of the rear section engaging the rear side bar of the front section to square the latter with reference to the rear section when the sections are fully extended.

1,419,575. WALL-RADIATOR SUPPORT. ANTONE LETTICH, San Francisco, Calif. Filed Feb. 21, 1921. Serial No. 446,637. 3 Claims. (Cl. 248—30.)



1. A support for mounting a wall radiator in elevated position above a floor, comprising a standard having a floor foot and having an upright slotted shank, an interlocking member adapted to be embedded in a wall as it is erected, means for fastening said member to the upper end of the shank through the slot, and attachments applicable to the shank, after the wall surface has been finished over the shank, to mount the radiator.

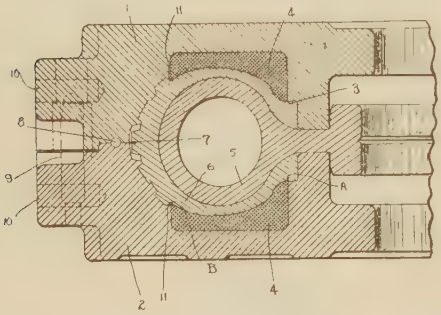
1,419,576. MACHINE FOR APPLYING BOX TOPS. GEORGE H. LITTLE, Winston-Salem, N. C., assignor to R. J. Reynolds Tobacco Company, Winston-Salem, N. C., a Corporation of New Jersey. Filed May 27, 1921. Serial No. 473,105. 30 Claims. (Cl. 93—55.)



1. Box top applying mechanism, comprising means for advancing box bodies successively to a top applying posi-

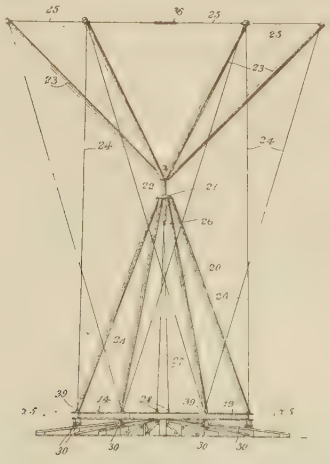
tion, means for maintaining a group of partially nested tops substantially at the top-applying position, and means for supplying successive tops from the group to successively positioned bodies and successively advancing the group to position another top for application after each top is withdrawn.

1,419,577. TIRE MOLD. MELVON A. MARQUETTE, Chicopee Falls, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Nov. 24, 1920. Serial No. 426,181. 4 Claims. (Cl. 18—38.)



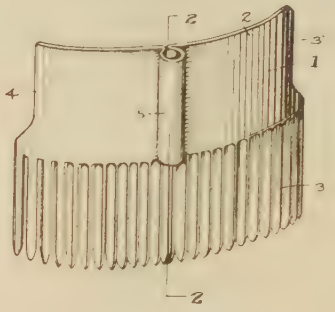
1. A tire mold, having annular concave inside faces, annular grooves of substantial width and thickness cut in said faces, and annular rings of a firm but compressible material inserted in said grooves.

1,419,578. AMUSEMENT APPARATUS. JOHN METZGER, Los Angeles, Calif., assignor, by direct and mesne assignments, to Security Amusement Engineering Corporation, Los Angeles, Calif., a Corporation of California. Filed Apr. 10, 1920. Serial No. 372,776. 10 Claims. (Cl. 46—27.)



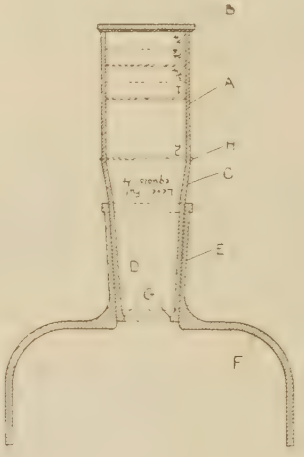
1. In an amusement apparatus, a base, legs rotatively supported on said base, outwardly and upwardly slanting arms connected with said legs, tension members connected with the outer ends of the arms and with the lower ends of the legs, tension members connecting the arms with one another, and passenger-carrying devices connected with the outer ends of the arms.

1,419,579. HAIR COMB. LEONARD A. MOBERRY, Oakland, Calif. Filed June 17, 1921. Serial No. 478,298. 3 Claims. (Cl. 132—23.)



1. A comb provided with a spring portion formed integrally with its body and intermediate its lateral edges.

1,419,580. BOTTLE STOPPER AND MEASURING GLASS. DOMENICO MOLINARI, Brooklyn, N. Y. Filed Aug. 23, 1920. Serial No. 405,223. 2 Claims. (Cl. 215—47.)

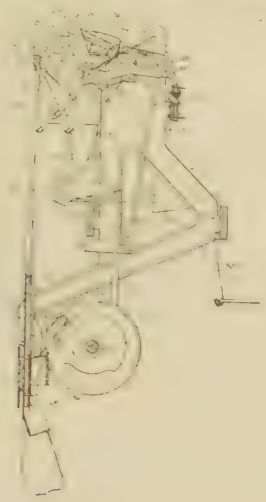


1. The combination with a bottle, of a stopper therefor, said stopper comprising a substantially cylindrical hollow glass receptacle open at the end to be inserted in the bottle thereby providing a rim, and having the exterior wall thereof adjacent the rim ground to fit the neck of the bottle.

1,419,581. COIN-CONTROLLED MECHANISM. WILLIAM F. MORIARTY, Chicago, Ill., assignor to Service Invention & Development Company, a Corporation of Delaware. Filed Nov. 26, 1917, Serial No. 203,899. Renewed Apr. 3, 1922. Serial No. 549,155. 15 Claims. (Cl. 194—9.)

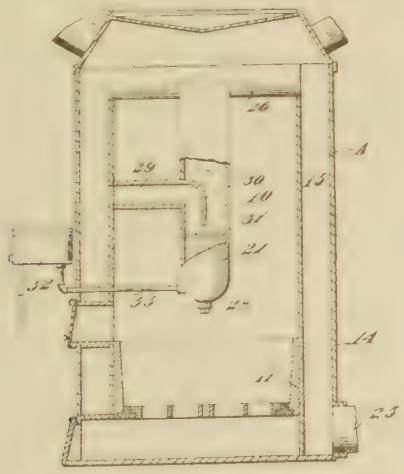
1. In a machine of the character described, the combination of a coin receiver suitable for the reception of coins of different value and to position any such coin to act as a fixed stop; a gage movable to different settings accordantly with diameter measurements of differ-

ent stop-acting coins, and a selector mechanism cooperating with said gage as a stop for determination of its



selective operation accordantly with the gage position determined by the coin-diameter.

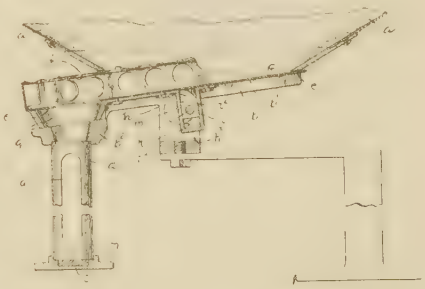
1,419,582. HUMIDIFIER FOR HEATERS. ROBERT NICHOLAS MURPHY, Ottawa, Ontario, Canada. Original application filed Sept. 25, 1918, Serial No. 255,700. Divided and this application filed Apr. 21, 1919, Serial No. 291,709. Renewed Apr. 22, 1922. Serial No. 556,117. 1 Claim. (Cl. 126—113.)



In a hot-air furnace, a fire pot, an air passageway surrounding the fire pot, an inlet for the air passageway, an outlet for the air passageway, a transversely extending pipe connecting opposite sides of the air passageway, a pipe depending from the transversely extending pipe and having a closed lower end forming a water receptacle, a branch pipe connecting the air passageway with the depending pipe, and a baffle wall overhanging the end of the branch pipe to direct the air downwardly over the water in the depending pipe.

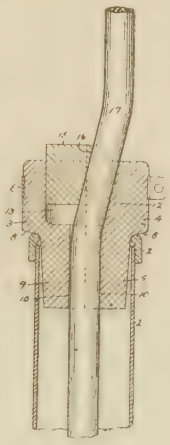
1,419,583. FEEDING ATTACHMENT FOR CROWN-CORK-MAKING MACHINES. BERTHOLD NAGY, Brooklyn, N. Y. Filed Dec. 18, 1917. Serial No. 207,766. 7 Claims. (Cl. 113—113.)

1. A feeding attachment for crown cork assembling machines embodying therein a hopper adapted to receive cork discs in bulk and having an open bottom adapted to permit a mass of cork to simultaneously pass therethrough, a vertically extending chute, the lower end of which terminates adjacent the cork disc feeding mechanism of an assembling machine, a plate mounted below the open bottom of said hopper and having an outlet opening therethrough adapted to permit disks to pass into the open top of said chute, said plate extending on an incline from adjacent said chute to adjacent said hopper, whereby cork discs have a tendency to move



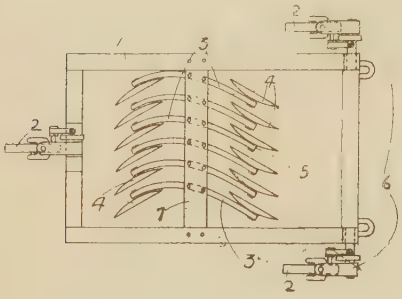
along said plate by gravity from adjacent said hopper to adjacent said outlet opening, means imparting continuous vibratory movement to said plate in the direction of the feeding movement of the disks thereon from said hopper to said chute, whereby discs thereon will be kept in continuous motion and will be caused to progress flatwise thereupon, and confining means adjacent said outlet opening, whereby discs will be successively directed therethrough into said chute.

1,419,584. CABLE HOLDER. HARVEY OLSEN, New York, N. Y., assignor to Michael J. Cafiero, Kings County, N. Y. Filed Apr. 2, 1919. Serial No. 286,913. 7 Claims. (Cl. 247—8.)



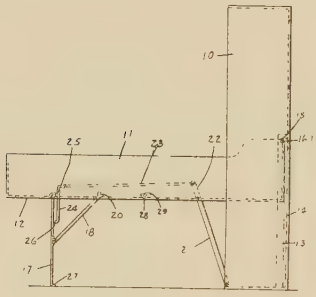
1. A cable-holder for a conduit pipe comprising a socket longitudinally divided into sections and arranged to be seated on the upper end of the pipe, mean for detachably securing said socket sections together, said socket being provided with a cable passage extending through its lower end, and at its upper end a recess having a flaring wall constituting a cable clamping seat disposed at an angle to the cable passage, and a wedge-block disposed within the recess and arranged to clamp the cable against said angular seat.

1,419,585. PLOW OR DISK HARROW. FRANK LOUIS PAIGE, Brawley, Calif. Filed Jan. 9, 1920. Serial No. 350,475. 5 Claims. (Cl. 55—73.)



1. In a plow or disk harrow, a frame, a central transverse member carried by the frame, a series of arms each secured centrally of the ends thereof to the member, and disks on each of the free ends of the respective arms.

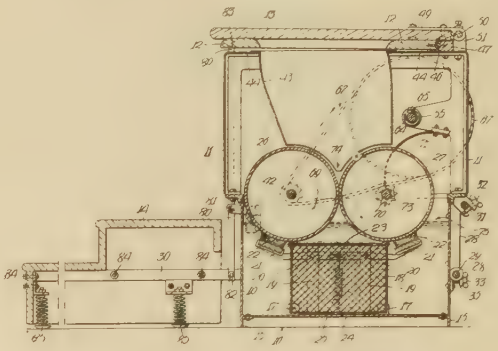
1,419,586. BED CONSTRUCTION. CHARLES F. PLACKARD, Summitville, Ind. Filed Dec. 6, 1920. Serial No. 428,681. 2 Claims. (Cl. 5—18.)



1. In a bed construction, the combination with a supporting framework, and a bed structure foldably supported upon said framework, of a desk plate adapted to support the extended portion of said bed structure in the bed-forming position and movable therewith, and means for supporting said plate upon the bed structure, said means permitting said plate to be moved into the closed position and to the desk-forming position intermediate the ends of the bed when said bed structure is in folded relation with said framework, and said means further supporting said desk plate near the end of the bed in the bed supporting position when said bed is in the bed-forming position.

1,419,587. SELF-CONTAINED SANITARY CLOSET. IAN NICOL RUSSELL, Sydney, and GEORGE WENTWORTH GRAYSON, Kensington, near Sydney, New South Wales, Australia. Filed Jan. 21, 1921. Serial No. 438,823. 6 Claims. (Cl. 4—20.)

1. A self-contained closet, comprising a pan adapted to contain a body of nightsoil resolving liquor, a casing with apertured seat at the top thereof, demountably supported above said pan, a pair of crushing rolls rotatably mounted in said casing with their lower sectors depending below said casing into said pan, means for rotating said rollers, and scraper means located in said pan and

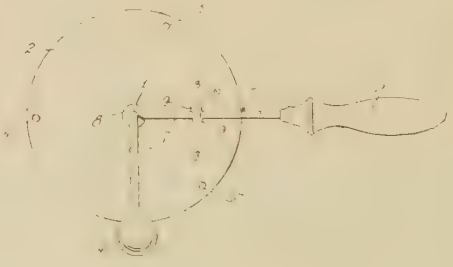


bearing against the rollers and adapted for removing adherent matter from the roller during the rotation.

1,419,588. SCREW PLUG AND METHOD OF MAKING SAME. THORVAL L. RYERSON, Park Ridge, Ill., assignor to W. D. Allen Manufacturing Company, Chicago, Ill., a Corporation. Filed Aug. 4, 1919. Serial No. 315,356. 4 Claims. (Cl. 10—10.)

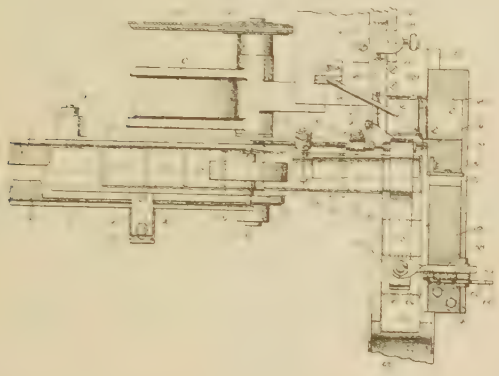
1. A screw plug having a tapered and threaded body portion and a square head, said plug being initially shaped between a set of forging dies, and the threads rolled on the body portion of the shaped plug between threading dies.

1,419,589. CLOTHESLINE REEL. FRED J. SCHAPER, St. Louis, Mo. Filed Sept. 1, 1921. Serial No. 497,536. 1 Claim. (Cl. 242—100.)



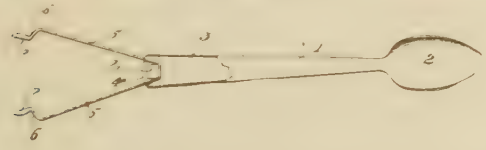
A device of the character described comprising a central shaft having a crank at one end, a circular disk mounted at each end of the shaft, rods connecting the disks to rigidly maintain them in proper spaced relation, a yoke member having radially projecting portions equipped with eyelets at their terminals forming bearings to receive the ends of the shaft, and a handle structure for the said yoke member each disk being provided with slots, the material adjacent the slots being pressed outwardly to form loops for receiving portions of the said yoke member whereby the latter may be rigidly secured to the said disk.

1,419,590. BOX-CLOSING APPLIANCE. JULIUS A. STOCK, Cicero, Ill., assignor to W. C. Ritchie & Company, Chicago, Ill., a Corporation of Illinois. Filed June 21, 1920. Serial No. 390,339. 5 Claims. (Cl. 226—80.)



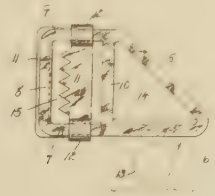
1. In a box-assembling machine of the character described, the combination of two substantially horizontal conveyers arranged at approximately right-angles to one another and at different levels, the upper one of said conveyers designed to feed box-covers individually in succession in tilted relation over the path of travel of box-trays fed by the other conveyer whereby the trays become interlocked with the covers, and means to force the covers down over the trays as they advance in partially assembled relation, substantially as described.

1,419,591. ARTICLE OF TABLEWARE. LOUIS STOLLERMAN, Brooklyn, N. Y. Filed Nov. 18, 1919. Serial No. 338,906. 5 Claims. (Cl. 294—33.)



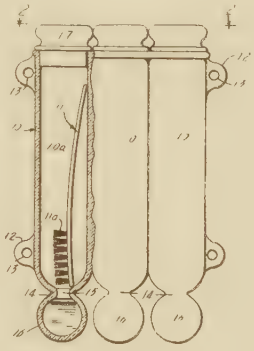
1. A sugar tongs comprising a hollow handle, tongs adapted to fit therein, and releasing means for automatically withdrawing the tongs.

1,419,592. FOUR-WAY-STRAP BUCKLE. HENRY G. STURGES, Utica, N. Y. Filed Oct. 5, 1921. Serial No. 505,575. 1 Claim. (Cl. 24—17.)



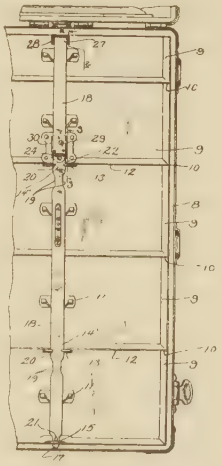
A four-way-strap buckle having a one-piece buckle-frame, comprising a tie-bar, a gripping-bar, two slide-bars, a straight equalizing-bar extending at an angle of 45° to the tie, gripping and slide-bars, and an intermediate bar or reinforce paralleling the said gripping-bar and dividing the interior space of the buckle-frame into a triangular opening lying adjacent to the equalizing-bar and a rectangular opening lying between said intermediate bar and the gripping-bar; in combination with a buckle-slide mounted at its ends upon the two slide-bars of the buckle, and coacting with the gripping-bar to grip the free end of the strap.

1,419,593. TOOTHBRUSH STERILIZER AND RETAINER. SAMUEL H. THOMPSON, Los Angeles, Calif. Filed Aug. 7, 1919. Serial No. 315,888. 3 Claims. (Cl. 206—15.1.)



2. A tooth brush holder comprising a tubular body closed at one end and adapted to be supported in a vertical position with its closed end down, the side wall of the body being deflected inward adjacent the closed end to form within the body a tooth brush support and two communicating chambers having integral walls, and a removable closure for the upper end of the body.

1,419,594. LOCKING MEANS FOR TRUNK DRAWERS. GEORGE HENRY WHEARY, Racine, Wis. Filed May 19, 1920. Serial No. 382,484. 7 Claims. (Cl. 45—94.)

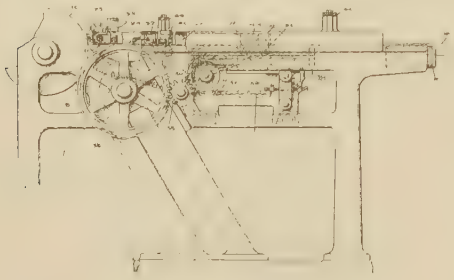


1. The combination with a trunk section having drawers, of a means for locking said drawers in closed position, comprising arms projecting from upper and lower and intermediate portions of the trunk section, a locking member formed of two independent parts removably engaging all of said arms, the adjacent ends of said two part locking member removably overlapping each other, and means locking the overlapped portions together.

1,419,595. SHEET-REGISTERING MECHANISM. JOSEPH WHITE, Piscataway Township, Union County, N. J., assignor, by direct and mesne assignments, of one-half to Hall Printing Press Company, Dunellen, N. J., a Corporation of New Jersey, and one-half to Miehle Printing Press and Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 7, 1912, Serial No. 713,745. Renewed Oct. 1, 1921. Serial No. 504,764. 40 Claims. (Cl. 271—48.)

9. A sheet carrier having a sheet front gage thereon, a carriage and means to support and move it toward and

away from said carrier, a pair of sheet front stops on said carriage, arranged to pass said front gage while a sheet is against said stops, means to move a sheet against said



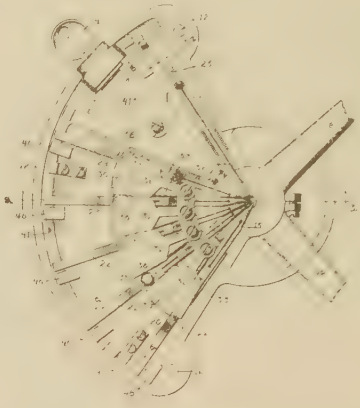
stops to square the sheet while said stops are moving toward said carrier and means to move said stops out of the path of the sheet.

1,419,596. MICROPHONE MOUNTING. EDWARD C. WOOD, Somerville, Mass., assignor to Submarine Signal Company, Boston, Mass., a Corporation of Maine. Filed Apr. 25, 1918. Serial No. 230,799. 2 Claims. (Cl. 179—138.)

1. A microphone instrument, for submarine use, comprising body casing parts within which is a chamber, a circular bridge on one of said body parts, a diaphragm so mounted as to form one side of said chamber and render the same water-tight, a microphone mounted at one side of said diaphragm in said chamber, a hollow collapsible member serving as an air container and the chamber of which member communicates with the said water-tight chamber, a ring secured to a body part of the device and by which ring said diaphragm is tightly clamped to a body part to make a water-tight joint, and an adjustable tuning ring bearing against said diaphragm inside of said first-named ring and outside of said circular bridge.

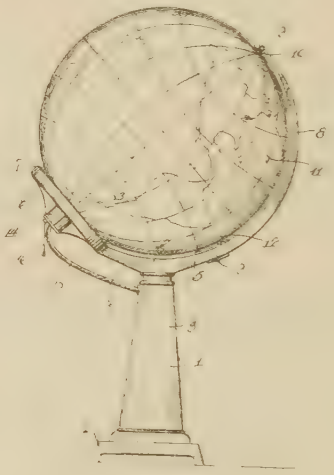
1,419,597. BUTTON BLOCK. GARRETT W. WOODWARD, Chicago, Ill., assignor to Woodward Automatic Control Corporation, Chicago, Ill., a Corporation of Illinois. Filed Nov. 29, 1920. Serial No. 427,140. 3 Claims. (Cl. 74—83.)

1. A button block comprising a series of buttons, a series of levers, each movable by a button, an element movable by each lever, means for preventing more than one of said levers being moved from its normal position



at a time, and means uncovered by said last mentioned means for indicating which button was last depressed.

1,419,598. TABLE LAMP. STANLEY J. ZELAZO, Adams, Mass. Filed Apr. 22, 1920. Serial No. 375,755. 4 Claims. (Cl. 240—81.)

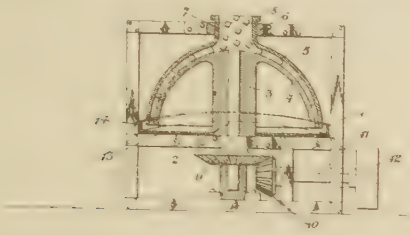


1. A device of the character described comprising a supporting pedestal having oppositely extending arms at its upper end, a circular plate carried by one of the arms and provided with an annular flange at its edge, the opposite arm having a hinge member connected thereto terminating in a pintle, means to hold the hinged member in operative position whereby the said pintle will be disposed diametrically opposite the center of the said plate, and a spherical globe member having its open end lodged on the plate and embraced by the said flange thereof whereby the said pintle may engage the globe at a point diametrically opposite its open end.

1,419,599. APPARATUS FOR THE MANUFACTURE OF METALLIC BALLS. ALBERT W. ALBRECHT, St. Louis, Mo. Filed Mar. 14, 1921. Serial No. 452,300. 7 Claims. (Cl. 80—18.)

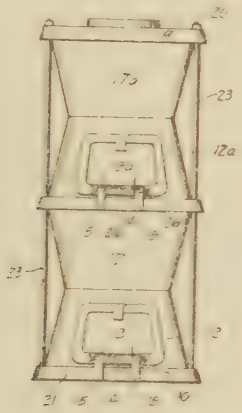
7. A machine of the character described, for the purpose of hot or cold rolling balls, comprising a rotary axially

immovable convex head, a rotary and axially movable concave member enclosing the head, mechanism for rotat-



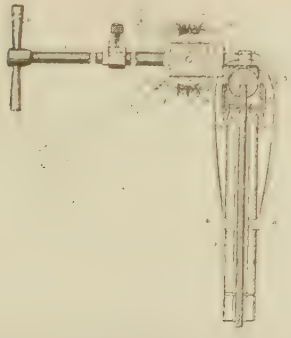
ing said head, a table supported in position to receive balls discharged from between said head and said member, and a discharge passage from said table.

1,419,600. NESTING CAMP HEATER. JOHN L. ANDERSON, Ogden, Utah. Filed Dec. 18, 1919. Serial No. 345,848. 3 Claims. (Cl. 126—58.)



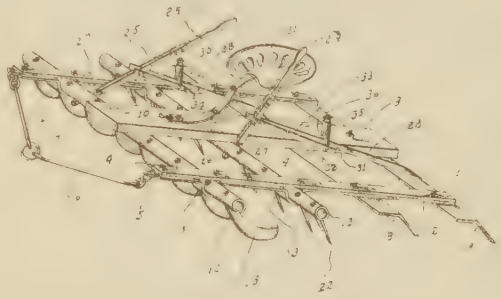
3. In a heating stove, a base portion, a cover portion, body portions intermediate the said base portion and cover portion and comprising a conically shaped hollow ash-box portion, a conically shaped hollow fire-bowl portion, an upper middle portion similar to the said ash-box portion, a top portion similar to, and interchangeable with, the said fire-bowl portion, and means for holding the said sections together as a unit structure when erected and for allowing the said sections to be separated for nesting, when required.

1,419,601. WINDSHIELD CLEANER FOR AUTOMOBILES. OTTO ANDERSON and FRANK W. SALSBURY, Pawtucket, R. I. Filed Dec. 11, 1920. Serial No. 430,069. 6 Claims. (Cl. 15—256.)



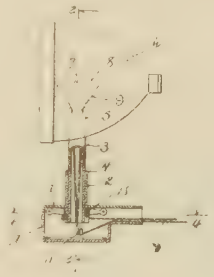
1. A wind-shield cleaner for automobiles comprising a supporting frame adapted to be clamped to the upper frame of the windshield; a wing projecting downward therefrom; a clasp adjustable vertically on said wing; and a wiper holder suspended from said clasp by a suitable support and revoluble thereon, substantially as described.

1,419,602. AGRICULTURAL IMPLEMENT. WILLIAM E. ATON, Milburn, Ky., assignor to Milburn Implement Manufacturing Co., Arlington, Ky. Filed Nov. 15, 1920. Serial No. 424,250. 3 Claims. (Cl. 74—39.)



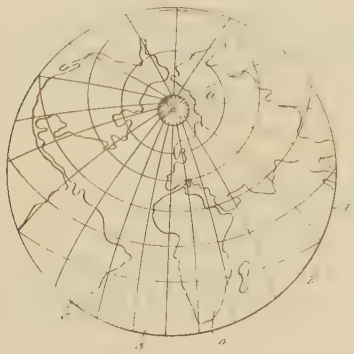
1. In an agricultural implement, the combination of a frame, a bar rotatably mounted on the frame, a floating locking bar secured rigidly at its rear end to the frame in rear of the rotatably mounted bar and projecting forwardly above the said bar, the front end of the locking bar being free, a lever secured rigidly to the rotatably mounted bar and projecting upwardly past the locking bar, a latch movable longitudinally upon the locking bar and adapted to engage the same, and connections between the said latch and the lever.

1,419,603. DIRIGIBLE HEADLIGHT. OTIS L. BEAM, Milwaukee, Wis. Filed June 9, 1921. Serial No. 476,196. 1 Claim. (Cl. 240—61.)



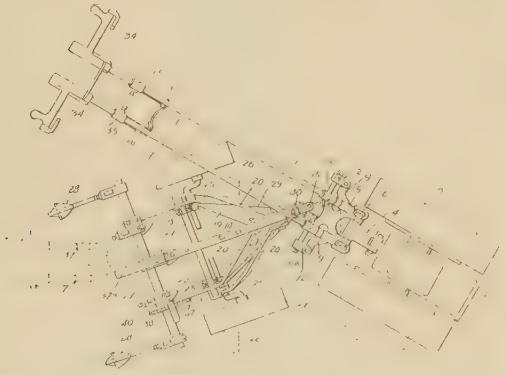
In a vehicle of the class described, a vertically disposed stepped bearing, a hollow shaft rotatably supported in said bearing and having a yoke at its upper end, said yoke having a passageway through one arm communicating with the inside of the shaft, a headlight casing tiltably mounted in said yoke, a spider secured to the lower end of said shaft, a similarly supported headlight casing, shaft and spider at the other side of the vehicle, cables connecting the forward and rearward portions of the respective spiders so as to cause the said shafts to rock in unison, an inclined hollow shaft adapted to be supported adjacent the steering column of the vehicle, a lever fulcrumed to swing in a vertical plane at the upper end of said inclined shaft, a pair of cables extending through said inclined shaft and attached at one end to said lever at opposite sides of its fulcrum and having branches at the other end attached to the respective headlight casings at opposite sides of its pivot, a reeving member in rear of the lower end of the inclined shaft and a pair of cables attached at one end to opposite sides of the lower end of said inclined shaft and roven about said reeving member and attached at the opposite end to opposite sides of one of said spiders.

1,419,604. GEOGRAPHICAL GLOBE. MAJOR H. E. BECKLEY, Chicago, Ill., assignor to A. J. Nystrom & Co., Chicago, Ill., a Corporation of Illinois. Filed Mar. 30, 1921. Serial No. 456,930. 1 Claim. (Cl. 35—5.)



In combination, a geographical globe having polar extremities, a dial mounted directly upon the globe near one of its polar extremities, said dial being substantially concavo-convex in cross section for snugly embracing the globe surface, and a circumferential series of spaces on the dial corresponding to the time in hours of a civil day, and having a substantially half portion thereof shaded.

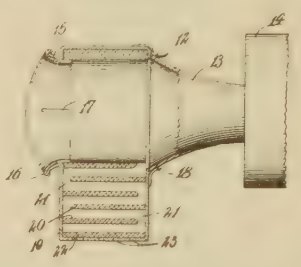
1,419,605. TRACTION MACHINE. EDWIN R. BEEMAN Minneapolis, Minn., assignor to Beeman Tractor Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Jan. 10, 1921. Serial No. 436,258. 12 Claims. (Cl. 180—19.)



1. A traction machine comprising a source of motive power and supporting tractive means therefor, a steering device connected with said source of motive power for oscillating it and said tractive means on a vertical axis to steer the machine, a frame connected with said source of motive power, and means supported by said steering device for transmitting a guiding movement from said device to said frame, said means becoming separated from said frame when said device is lifted.

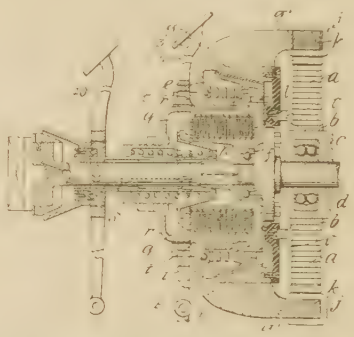
1,419,606. TELEPHONE MUFFLER. THEOBALD BENEDICT, New York, N. Y., assignor of one-third to Jack Dietrich, New York, N. Y. Filed Jan. 27, 1922. Serial No. 532,110. 8 Claims. (Cl. 179—188.)

1. A telephone muffler comprising a casing adapted for application to a transmitter and having entrance and exit openings on opposite sides for the sound waves, and sound absorbent material in said casing comprising a series of parallel strips partially surrounding the space between said openings arranged to present a tortuous transversely directed air passage, the wall of said casing



toward which said passage leads being formed with a plurality of small perforations spaced over a comparatively large area thereof.

1,419,607. ELECTRICAL EQUIPMENT OF MOTOR VEHICLES AND AIRCRAFT. FREDERIC H. BOWMAN, Manchester, and RALPH L. ASPDEN, Chorley, England; said Bowman assignor of his entire right to Richard Edward Aspden, Chorley, England. Filed Aug. 28, 1920. Serial No. 406,696. 7 Claims. (Cl. 290—31.)



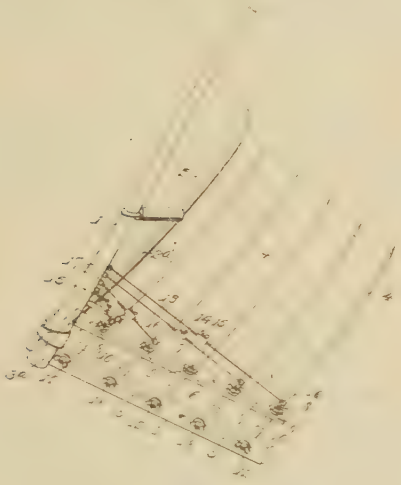
5. In the electric equipment of a motor vehicle or aircraft, an internal combustion engine; an engine shaft forming an element thereof; a dynamo-motor winding provided on a part of the engine casing; a member rotatably mounted on the engine shaft; a dynamo-motor winding on said member; a rotary member rigid with the engine shaft and rotary means axially slidable but non-rotatable relative to the engine shaft adapted to couple or uncouple the first and second named members at will.

1,419,608. CORNER BRACE FOR WINDOW SCREENS. STEVEN BRENDZA, Cleveland, Ohio. Original application filed Nov. 15, 1919, Serial No. 338,306. Divided and this application filed Sept. 4, 1920. Serial No. 408,179. 1 Claim. (Cl. 20—92.)

A sheet metal corner brace formed from a substantially rectangular sheet of metal split inwardly definite

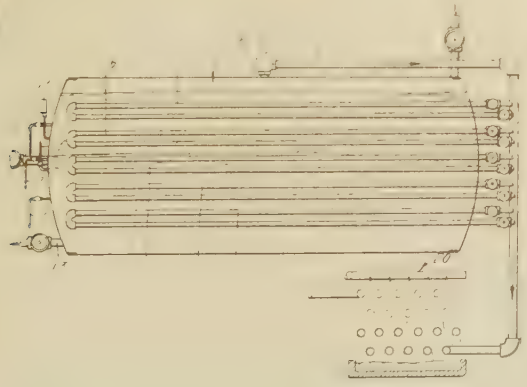
distances from diagonally opposite corners and then along divergent oblique lines for definite distances, leaving a central portion of the plate unsevered and presenting oppositely extending wings, said plate being folded along parallel lines constituting the opposite edges of the unsevered portion, said central portion being also folded, along parallel lines, bringing the wings thereof at right angles to each other.

1,419,609. GRAIN CRADLE. GEORGE WASHINGTON BROWN, Grafton, W. Va. Filed Apr. 9, 1921. Serial No. 459,949. 6 Claims. (Cl. 56—324.)



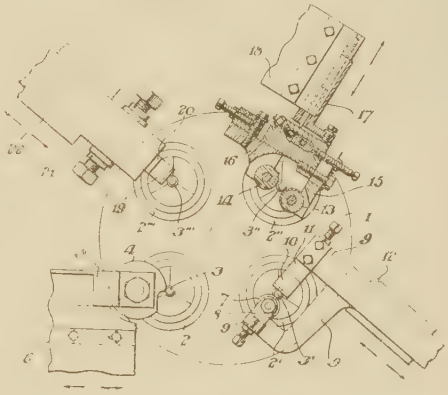
3. A grain cradle comprising a snath, a scythe, a finger-supporting bar attached to said snath and having slots therein, a second bar located parallel and adjacent to said supporting bar and having slots therein, fingers having tenons received in the slots of the first mentioned bar, nuts on said fingers for securing said fingers in adjusted position with respect to said supporting bar, bolts carried by said fingers projecting through the slots of said second bar, nuts carried by said bolts for tightening said fingers in adjusted position with respect to said second bar, and extensible brace-rods between said fingers and the snath.

1,419,610. PROCESS OF SEPARATING AND TOPPING HYDROCARBONS FROM A WATER MIXTURE. WALTER ARTHUR BROWN, Los Angeles, Calif. Filed Feb. 24, 1919. Serial No. 278,727. 4 Claims. (Cl. 196—25.)



4. The herein described process of separating and topping hydrocarbons from a water mixture, embodying heating the mixture and simultaneously holding thereon a pressure sufficient to prevent vaporization of the water and thereby inducing the separation of the water from the hydrocarbons; then further heating the hydrocarbons without substantially heating the water to develop vapors from the hydrocarbons and simultaneously holding an increased pressure on the liquids and simultaneously withdrawing some of the vapors as the water settles out of the mixture.

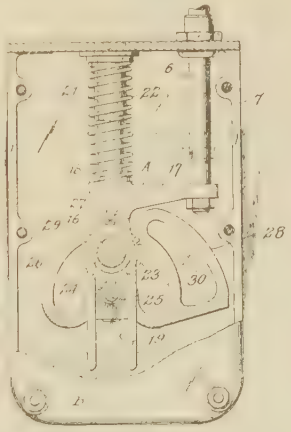
1,419,611. PROCESS AND APPARATUS FOR MAKING BEARING ROLLS. TRACY V. BUCKWALTER, Canton, Ohio, assignor to Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Oct. 3, 1919. Serial No. 328,260. 6 Claims. (Cl. 29—37.)



1. The process of forming bearing rolls which comprises the sequential operations of revolving the stock successively in contact with a turning tool, a burnishing tool and a cutting off tool.

4. The combination with a revoluble head and revoluble work holders carried thereby, of a roughing cutter, a finishing cutter, a burnishing tool and a cutting off tool arranged to act simultaneously on work carried by said holders.

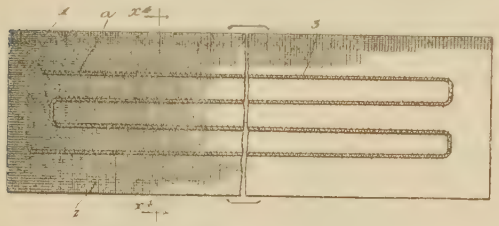
1,419,612. VALVE CUT-OFF AND SPEED INDICATOR. VIRGINIUS Z. CARACRISTI, Bronxville, N. Y. Filed Mar. 8, 1922. Serial No. 541,941. 5 Claims. (Cl. 116—125.)



5. In combination with the operating gear for the cut-off valve of a locomotive, a reverse lever operatively connected to said gear and means for indicating various positions of the cut-off valve; actuating means for said indicating means including a cam operatively connected to the reverse lever, and a member connected to a part of the indicating means and yieldingly held in coacting engagement with the cam to be actuated thereby in a

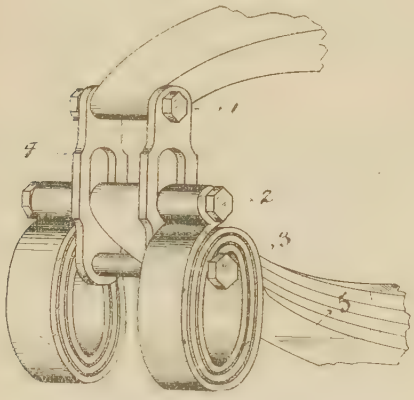
movement of the reverse lever in one direction and thereby impart an operating movement to the indicating means to an extent predetermined in accordance with the differences in the angular movement of the cut-off valve with respect to the operating gear.

1,419,613. ELECTRIC HEATING FABRIC. PHYLLIS E. CHARLES, Victorville, Calif., assignor to B. R. Charles, Los Angeles, Calif. Filed May 3, 1920, Serial No. 378,626. Renewed Dec. 30, 1921. Serial No. 526,084. 1 Claim. (Cl. 219—46.)



In an electric-heating fabric, a woven textile body, a resistance unit comprising a pliant core and a resistance wire helically wound in an open coil on said core, the resistance unit lying against one face of the textile body, and stitches in zigzag formation, passing from side to side of the resistance unit and through the textile body to fasten the resistance unit in place, the different passes of the resistance unit being spaced from one another to permit ready flexing of the fabric.

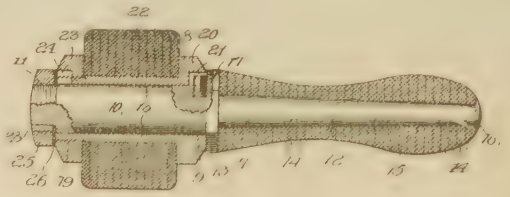
1,419,614. SHOCK ABSORBER. CLARENCE W. COBURN, San Francisco, Calif. Filed Dec. 4, 1919. Serial No. 342,443. 1 Claim. (Cl. 267—27.)



A shock absorber comprising a pair of link members, having vertical slots therein, held in spaced relation by a connecting bolt adapted to be secured to a relatively stationary part of a vehicle; a bolt slidably retained in the slots in said link members and adapted to be mounted on a part of said vehicle movable relatively to said first mentioned part; a bolt fixed in the opposite ends of said link members and a pair of convolute spring members mounted on the outside of said link members and adapted to have the ends thereof pivotally secured to the opposite ends of said movable and fixed bolts and to be interposed therebetween.

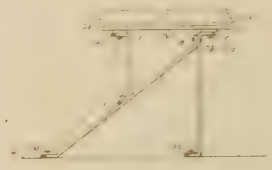
1,419,615. MALLET. MORRIS COHEN, Chicago, Ill. Filed Sept. 23, 1921. Serial No. 502,820. 2 Claims. (Cl. 145—36.)

1. A mallet formed of a body portion affording a handle a head carried by said handle and reversible end for end thereon, said head being formed of a sleeve whose bore receives said body portion and presenting flanges at its ends, and a body of striking material surrounding said sleeve and confined between said flanges, and a radial



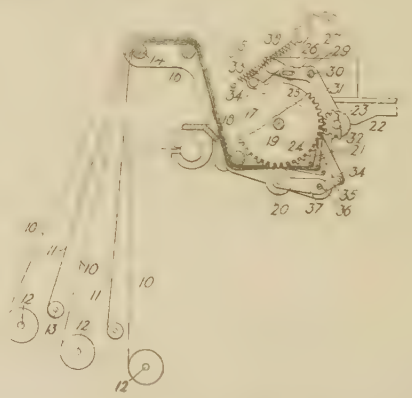
projection from said body portion, said flanges containing recesses extending radially from the bore of said sleeve into which said projection extends in the alternative positions of said head.

1,419,616. DISPLAY STAND. GERALD J. COUGHLIN, Watertown, N. Y. Filed Mar. 6, 1922. Serial No. 541,346. 3 Claims. (Cl. 211—25.)



1. In a display stand, parallel standards of unequal length, an angular brace supporting one of the standards and rigidly secured to the other standard, parallel bars supported by said standards, and parallel strips mounted on said bars, said strips having their opposite ends bent upwardly to retain a tray.

1,419,617. TYPEWRITING MACHINE. JOSHUA E. DAVIDSON, New York, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 11, 1918. Serial No. 253,492. 23 Claims. (Cl. 197—134.)



1. The combination with a revoluble platen, of means for turning the platen, means independent of the platen for guiding a plurality of separate superposed work-webs substantially rectilinear to the printing line on the platen, and driving means geared to the platen and co-operating with the turning platen at the printing line, adapted to grip said work-wegs and feed them all at the same speed.

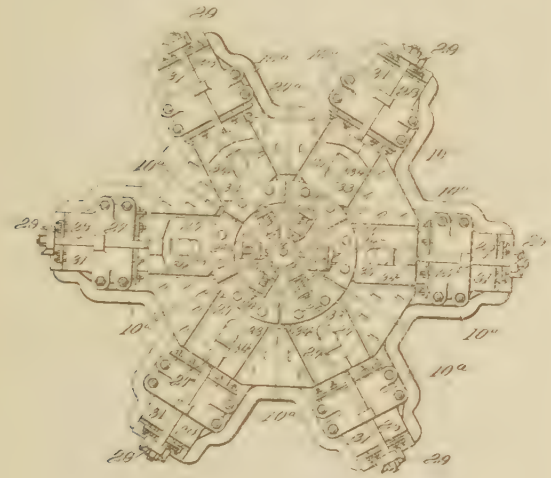
1,419,618. DOUBLE CAPSULE. WILLIAM M. DEMING, Fairview, Mont. Filed Feb. 28, 1920. Serial No. 362,158. 1 Claim. (Cl. 167—2.)

An article of manufacture, for administering medicine internally to the lower animals, adapted to be delivered

by means of a balling gun beyond the swallowing muscles of the throat, comprising an encasing capsule constructed of relatively hard gelatin and being of a size to fit within and ejected from said balling gun, and a rela-

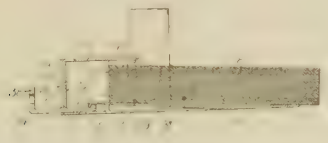
tively soft gelatin capsule, and adapted to contain medicine, said soft capsule being smaller than and loosely housed in the hard capsule, whereby the inner capsule is permitted of a varying contact with the wall of the relatively hard capsule.

1,419,619. MACHINE FOR SIZING AND PUNCHING RIMS AND BANDS. WILLIAM R. EDWARDS and JOHN LUKES, Cleveland, Ohio, assignors to The Hydraulic Pressed Steel Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 16, 1919. Serial No. 318,066. 9 Claims. (Cl. 113—1.)



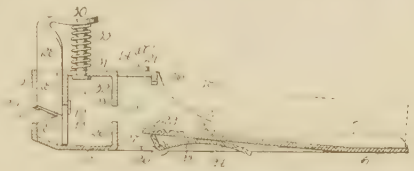
1. In a machine of the kind described the combination with a plurality of radially inwardly movable sizing members and means for actuating the same, of a plurality of outwardly movable punches adapted to operate upon an article held within the sizing members and means for actuating said punches.

1,419,620. SALES-CHECK HOLDER AND NOTCHING DEVICE. CHARLES A. ERICKSON, Chicago, Ill. Filed June 20, 1921. Serial No. 478,954. 4 Claims. (Cl. 211—37.)



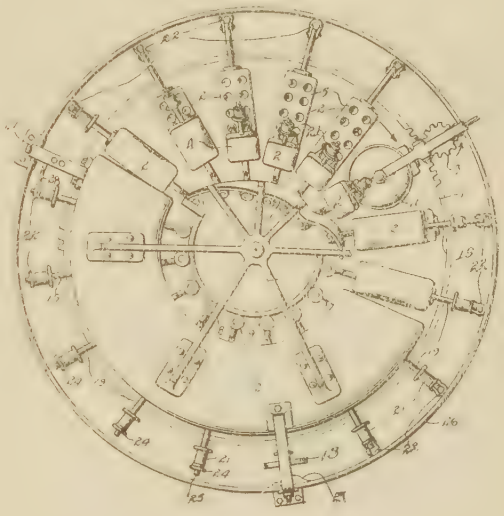
1. A device of the class described, consisting of a body having at one of its ends an overlying part and provided on its floor with a longitudinally disposed arm connected at one of its ends thereto and extended under said overlying part, and a member mounted on the body for longitudinally slidable movement and engagement with the lower surface of said arm.

1,419,621. SALES-CHECK HOLDER AND PUNCH. CHARLES A. ERICKSON, Chicago, Ill. Filed Oct. 14, 1921. Serial No. 507,776. 4 Claims. (Cl. 211—37.)



1. A device of the class described, consisting of an elongated body having at one of its ends an overlying part and provided with a longitudinal arm movable at one of its ends under said overlying part, and means carried by the body and co-acting with said arm to move the same toward said part and to lock it against movement in the opposite direction.

1,419,622. PASTRY-CONE MACHINE. LOUIS H. ESSELMANN, St. Louis, Mo., assignor of one-half to John Shalhoub, St. Louis, Mo. Filed June 18, 1920. Serial No 389,982. 2 Claims. (Cl. 107—58.)

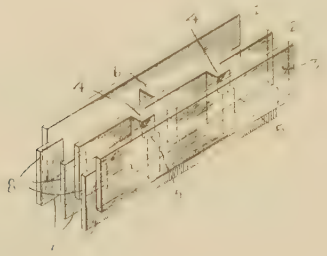


2. In a mold structure, complementary mold members, one of said mold members being pivoted to the remaining mold member, extensions on the outer end of said mold members, rollers carried by the extensions of one mold member, latching members carried by said extensions of the remaining mold member, means for engagement with said rollers and the extensions opposite the same to force said extensions toward one another, means for swinging said latching members into engagement with the roller carrying extensions to lock together said mold members, means for automatically releasing said latching members at times, to permit opening of said mold members, means for opening said mold members, supporting means for said mold members, and means to revolve said mold members on said supporting means.

1,419,623. HOLLOW BUILDING BLOCK. DE WITT H. FESSENDEN, New York, N. Y. Filed May 25, 1920. Serial No. 384,006. 3 Claims. (Cl. 72—41.)

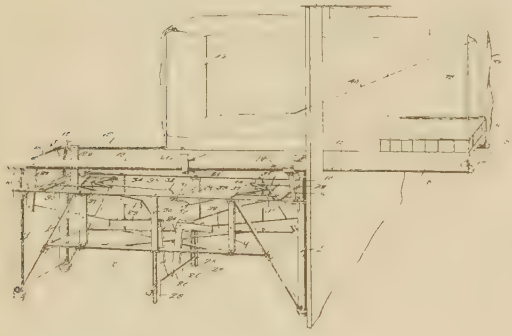
1. A concrete building block comprising an integral whole yet formed of the following characteristic elements, a plurality of slabs of approximately equal dimension arranged in parallel relation and terminating at each end respectively in common transverse planes, and mounted between parallel planes, a second series of slab members of approximately the same length and width as said first

series and mounted with reference to said first series so that one end of said slab members extends through and beyond the plane in which one end of the first series terminates, and also extends through and below the plane



in which the first series terminate, with suitable block members interposed between said slabs, said block members being provided with suitable cavities adapted to receive said second group of slab members when one block is placed adjacent another block.

1,419,624. BED. BOYD W. GOEBEL, Madison, N. C., assignor of two thirds to Diedrich B. Fedderwitz, Savannah, Ga. Filed May 3, 1921, Serial No. 466,406. Renewed May 10, 1922. Serial No. 559,899. 2 Claims. (Cl. 5—12.)

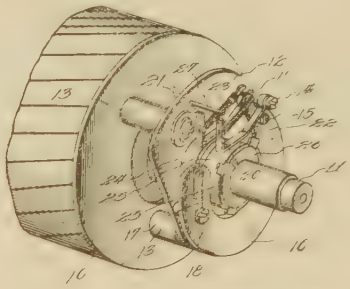


1. A bed of the character described comprising a main frame, a secondary frame and a body supporting frame carried by the latter, a foot pedal pivotally mounted upon the main frame, links pivotally mounted upon the secondary frame, and connecting means between the two, whereby the secondary frame may be vertically adjusted with respect to the main frame by the movement of the foot lever.

1,419,625. DETERGENT COMPOUND AND METHOD OF MAKING THE SAME. FAY H. GUERNSEY, Buffalo, N. Y., assignor to The Electric Smelting & Aluminum Co., Lockport, N. Y. Filed Feb. 18, 1921. Serial No. 446,133. 5 Claims. (Cl. 87—5.)

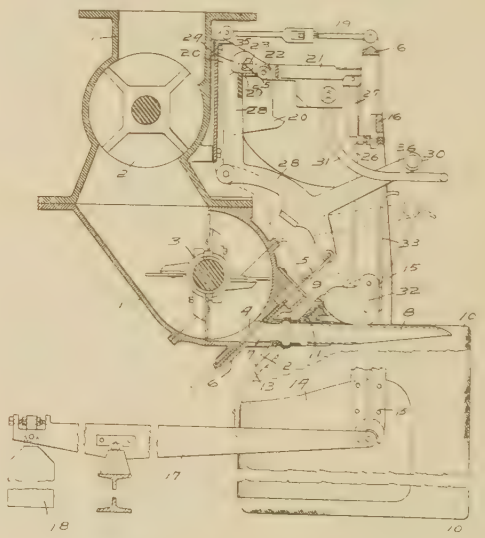
4. A detergent in a hydrated condition formed of one molecular weight of alumina, x molecular weights of silica and x minus one molecular weights of alkali metal oxide, x representing any number greater than seven into which has been physically incorporated an alkali metal salt of a weak acid, together with an emulsifying agent and a further quantity of alkali metal oxide sufficient to replace the alkali metal oxide which is consumed in the saponification during the process of cleansing, said quantity being small enough to enable the detergent to maintain itself in a solid condition at summer temperatures.

1,419,626. CENTRIFUGAL SWITCH. RAY S. HARDIN and EDWARD W. WIEHLE, Chicago, Ill., assignors to Birtman Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 14, 1921. Serial No. 444,634. 6 Claims. (Cl. 200—80.)



1. In a centrifugal switch for electric motors, a contact member, a support carried by the rotor, a centrifugal member movably carried by said support and movable outwardly by centrifugal force, a brush movably carried by said support, and a spring operably connecting said centrifugal member and brush and tending to force said centrifugal member inwardly under all conditions and operating to hold said brush in contact with said stationary member until a predetermined speed is reached and to force said brush out of contact with said stationary member at speeds greater than said predetermined speed.

1,419,627. BAG-FILLING MACHINE. LOUIS H. HARTMAN, Toledo, Ohio, assignor to The Valve Bag Company, Toledo, Ohio, a Corporation of Ohio. Filed May 15, 1919. Serial No. 297,391. 4 Claims. (Cl. 249—55.)



1. In a receptacle filling and weighing machine, a horizontally extending filler tube for receiving the upper end of the receptacle, a machine casing, an ejector located in the casing for forcing the material through the tube, a frame for supporting the receptacle and connected to the filler tube, a scale for supporting the frame, a flexible horizontally disposed tube interconnecting the casing and the filler tube through which the material is forced by the ejector.

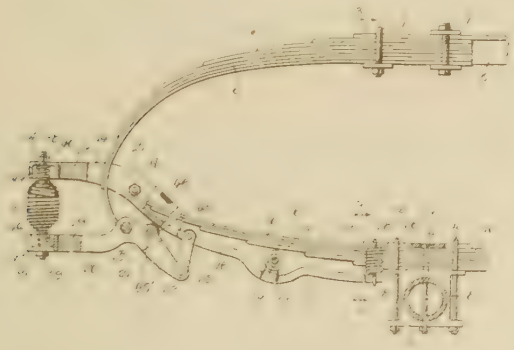
1,419,628. VALVE-GRINDING TOOL. GLEN W. HELMER, Ilion, N. Y. Filed June 6, 1921. Serial No. 475,238. 1 Claim. (Cl. 51—29.)

A valve-grinding tool, comprising a head, a spindle mounted in said head, means for turning said spindle, a

tool shank connected with said spindle, an externally-tapered nut mounted on said shank, and a pair of jaws mounted in the said shank, the pivotal axes of which are parallel to the spindle, the upper ends of the jaws formed

with laterally and tangentially projecting arms, the sides of which bear upon the tapered surface of the nut, whereby, as the nut is moved up or down, the jaws will be caused to turn.

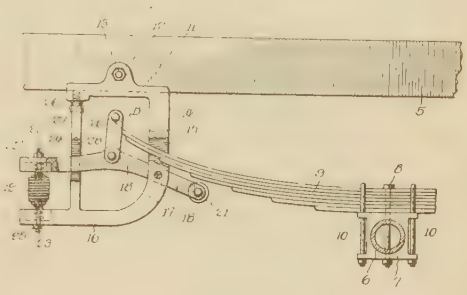
1,419,629. SHOCK ABSORBER. JAMES M. KERR, Crawfordsville, Ind. Filed Mar. 11, 1922. Serial No. 542,861. 8 Claims. (Cl. 267—17.)



1. In a vehicle, the combination with the vehicle body, an axle, a leaf spring secured on the axle and extending outwardly therefrom, and an extension from the body terminating below the outer end of said axle spring, of a lever fulcrumed on the outer end of said axle spring, said lever extending outwardly from the spring end rearwardly below the spring, an elastic member connected between the inner end of said lever and apart of the vehicle, a second lever below the first mentioned lever fulcrumed intermediate its ends on the end of said body extension, the outer end of said second lever terminating below the outer end of said first mentioned lever, an elastic member between the outer ends of said levers, and a pivot connection between the inner end of said second lever and the first mentioned lever, said elastic members resisting separation of said levers at their outer ends.

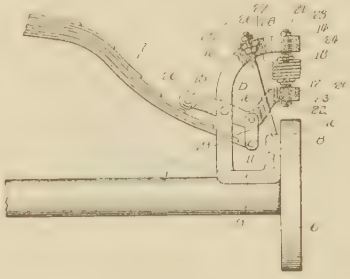
1,419,630. SHOCK ABSORBER. JAMES M. KERR, Crawfordsville, Ind. Filed Mar. 11, 1922. Serial No. 542,862. 7 Claims. (Cl. 267—17.)

1. In a vehicle, the combination with the vehicle body, the axle, and a leaf spring secured to the axle and extending outwardly below the body side, of a bracket structure secured by its base to the body, an arm extending downwardly from the bracket base, a lever fulcrumed on said arm below the spring and extending outwardly, a connection between the end of said spring and said lever intermediate the fulcrum point of the lever and the outer end



thereof, an elastic member connected between said bracket and the outer end of said lever for resisting swing of the lever, and an abutment on the inner end of said lever below said spring, said spring when relaxing engaging with said abutment to cause swing of the lever against the resistance of said elastic member whereby recoil of the spring is retarded.

1,419,631. SHOCK ABSORBER. JAMES M. KERR, Crawfordsville, Ind. Filed Mar. 11, 1922. Serial No. 542,863. 5 Claims. (Cl. 267—17.)

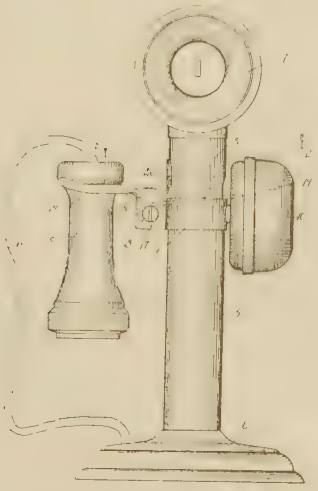


5. In a vehicle, the combination with the vehicle axle, and the vehicle spring above the axle, of a supporting base secured on said axle, an arm extending upwardly from said base and outwardly at its top, a lever fulcrumed on said arm above the spring, a connection between the spring and the lever outside of the lever fulcrum, an elastic member connecting between the outer end of said lever and the outer end of said bracket arm, and a brace member for said bracket connecting with the outer end of said arm.

1,419,632. SOUNDING TOY. JOSIAH R. KIDNEY, East Hampton, Conn., assignor to The N. N. Hill Brass Co., East Hampton, Conn., a Corporation. Filed Mar. 2, 1922. Serial No. 540,539. 2 Claims. (Cl. 46—46.)

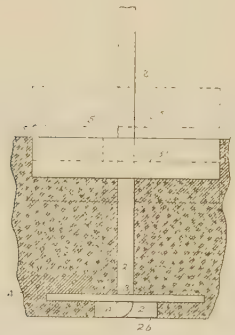
1. A sounding toy, comprising a post formed with a transverse hole, a bicycle bell, including a clamp, sur-

rounding said post, a hook pivotally connected with said clamp, and a spring, one end of which tends to raise said



hook, and the other end extending through the hole in the post, into actual engagement with said bell.

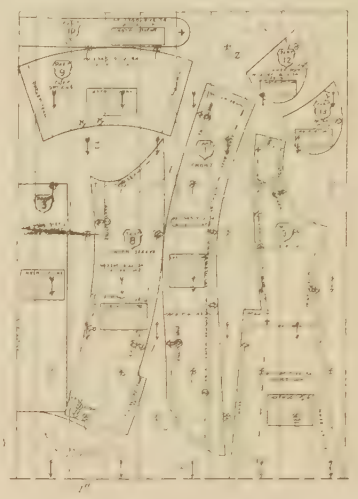
1,419,633. METAL FENCEPOST. ORVILLE M. KNOX, Knoxboro, N. Y. Filed Sept. 30, 1921. Serial No. 504,332. 2 Claims. (Cl. 189—29.)



1. A metal fence-post, comprising a rectangular body, having oppositely facing anchor-lugs projecting at right angles to its bottom end adapted to rest upon the bottom of a post-hole, an anchor-plate mounted on said lugs and embracing the body adapted to support a mass of concrete by which the post is anchored, and a brace adapted to be embedded in the top surface of the concrete and having a lateral socket to receive one edge of the body for preventing loosening and swaying of the top-end of the body.

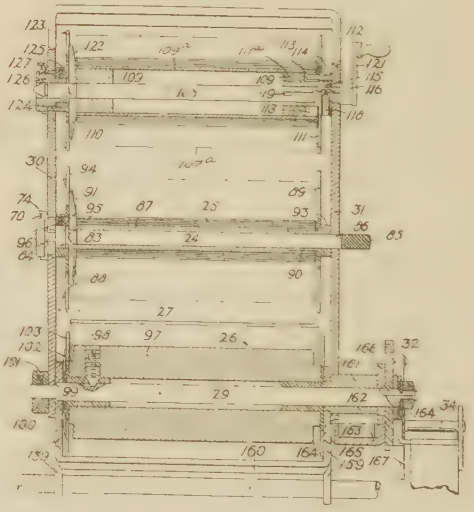
1,419,634. PATTERN FOR GARMENTS. FRANK KOEWING, West Orange, N. J., assignor to Koewing Patterns, Inc., New York, N. Y., a Corporation of New York. Filed June 14, 1919. Serial No. 304,338. 6 Claims. (Cl. 33—12.)

1. The process of forming printed patterns for garments, which comprises preparing a sheet of paper containing a series of longitudinal lines, parallel to the marginal edges of the paper on which said patterns are to be printed and also printing on said paper the outlines of the various parts of the pattern so arranged that when the pattern is laid upon the cloth with the longitudinal lines parallel to the warp threads of the cloth and the



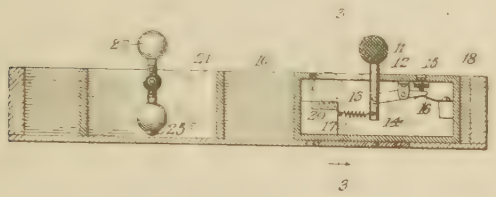
cloth cut along the pattern outlines, the warp threads of all the parts will be substantially parallel one to another when the parts are assembled to form a garment.

1,419,635. TYPEWRITING MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Original application filed Mar. 14, 1917, Serial No. 154,650. Divided and this application filed June 20, 1918. Serial No. 240,980. 16 Claims. (Cl. 242—68.)



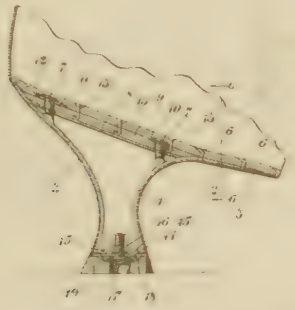
1. In a typewriting machine, the combination, in a roll-holding device, of a roll core or web-carrying spool, a spindle therefor adapted to pass through the roll core, a slot in said spindle, a spring, a latch adapted to be pressed by said spring to enter said slot, and means giving said latch a limited throw, said spindle having a pointed end adapted to thrust aside said latch when the spindle is inserted to make the spring effective to draw the latch into the slot when the spindle is positioned.

1,419,636. TEST AND PRACTICE APPARATUS FOR GOLF PLAYERS. JAMES M. MACDONALD, East Orange, N. J. Filed Nov. 15, 1920. Serial No. 424,070. 18 Claims. (Cl. 46—4.)



1. In a test and practice apparatus for golf players, a support, a target mounted thereon in position to be struck by a club, a secondary target in position to be struck by the club after passing the first target, and a pivotal mounting for the secondary target on said support.

1,419,637. SHOE HEEL. FREDERICK P. MARX, St. Louis, Mo. Filed Oct. 11, 1920. Serial No. 416,196. 4 Claims. (Cl. 36—40.)

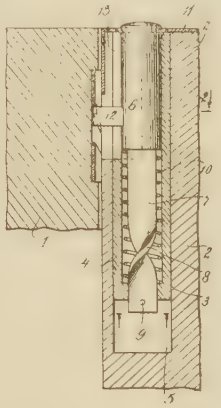


4. A shoe heel, comprising a hollow casting having its walls diverging toward the upper end of the heel; a metallic plate secured within the upper portion of the heel; a penetrable block on said plate for receiving the fasteners holding the heel in connection with a shoe; means for binding said block and said plate together and in rigid position in the upper portion of the heel; and a flexible projection near the rear wall of the heel for engaging a shoe sole.

1,419,638. DISPLAY DEVICE AND BLANK. MAX V. MILLER, New York, N. Y. Filed Aug. 16, 1921. Serial No. 492,757. 7 Claims. (Cl. 40—149.)

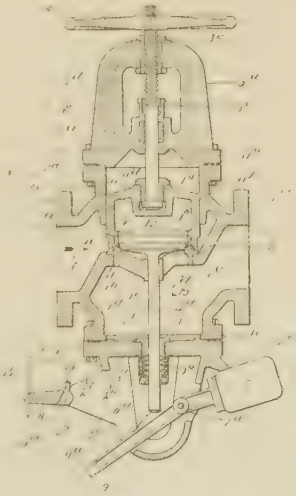
7. A display device comprising a shallow open ended container of folded sheet material one of the faces of the container having an open window therein, the other of the faces having a cut out tongue integral therewith and forming a prop to support the container, and a card in said container and carrying any information or design visible through said window, said card being insertable or removable through the open ends of the container.

1,419,639. LATCH FOR AUTOMOBILE AND OTHER DOORS. JOSEPH THOMAS MOLLOY and HARRY HEMPE, Poughkeepsie, N. Y. Filed Apr. 30, 1920. Serial No. 377,909. 8 Claims. (Cl. 292—61.)



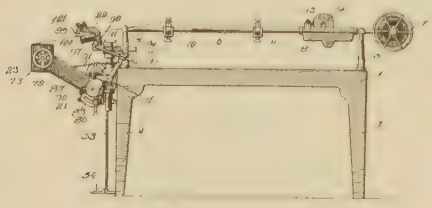
6. In a latch for vehicle and other doors, the combination with the door and its jamb of a bolt-carrying member mounted on one of said parts for movement in a direction parallel with the meeting faces of the door and jamb, a cam engaging said bolt carrying member and arranged to effect a rotation of the bolt-carrying member upon its said movement, a cooperating piece carried by the other said part, said piece having a slot to receive said bolt, a part of said slot having a shoulder parallel with the axis of the bolt-carrying part and a transversely extending part whereby said bolt may be shifted axially to clear the shoulder and then turn transversely to withdraw the bolt clear of the jamb.

1,419,640. FLOW-CONTROL DEVICE. HERBERT B. MORRILL, Salem, Mass. Filed Feb. 10, 1919. Serial No. 275,958. 13 Claims. (Cl. 137—144.)



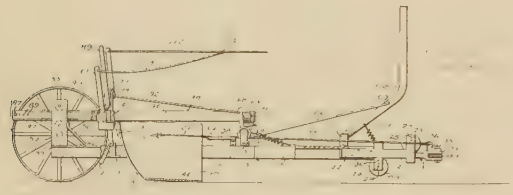
1. A flow control device having therein a plurality of valve-members controlling the same flow passage, means tending to open one of said valve members on closure of another, means for holding open said first mentioned valve member, said first mentioned valve member being adapted to be closed by fluid pressure when released by said holding means.

1,419,641. BOX-COVERING MACHINE. WILLIAM F. MORSE, Rochester, N. Y., assignor to Samuel R. Parry, Rochester, N. Y. Filed June 29, 1918. Serial No. 242,648. 6 Claims. (Cl. 93—54.)



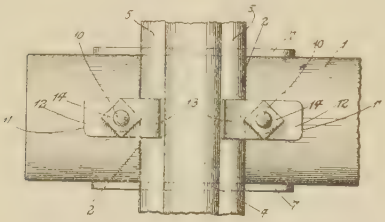
1. In a box covering machine, the combination of a spindle, a box form mounted on the end thereof, a bearing for said spindle, bushings interposed between said spindle and said bearing and adapted to rotate with the spindle, and a hand wheel for clamping said bushings to or release them from said spindle.

1,419,642. ROAD SCRAPER. FREDRICK R. MORTON, Fresno, Calif. Filed July 21, 1921. Serial No. 486,497. 7 Claims. (Cl. 37—33.)



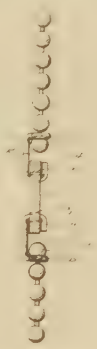
1. In a machine of the character described, a main frame, wheels supporting the same, a supplemental frame, means whereby the supplemental frame has a portion thereof supported by the main frame and is adapted to move longitudinally and upwardly with relation to the main frame, a scraping element supported by the supplemental frame, tracks secured to the main frame and having inclined portions, elements carried by the supplemental frame and arranged to engage the inclined portions of the track, a draft device connected with the main frame and adapted to move longitudinally with relation thereto, connecting means between the draft device and the supplemental frame, and means to prevent the upward movement of the supplemental frame with relation to the main frame.

1,419,643. RAIL TIE. ISAAC PLOST, St. Louis, Mo., assignor of one-half to Thomas R. Harris, University City, Mo. Filed Sept. 29, 1921. Serial No. 504,113. 4 Claims. (Cl. 238—60.)



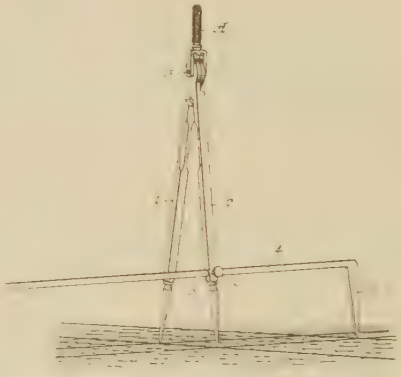
1. A rail tie, comprising an arched metallic member having a rail receiving recess in the top wall thereof, a plate mounted transversely of said member, said plate having retaining flanges constituting abutments for the side walls of said first-named member, bolts supported by said plate and extending through the top wall of said first-named member, and clamps adapted to be adjusted on said bolts for clamping the rail in connection with said first-named member.

1,419,644. INSULATING COUPLING UNIT FOR PULL-SOCKET CHAINS. ADOLPH C. RECKER, Oakville, Conn., assignor to The Chase Companies, Inc., Waterbury, Conn., a Corporation. Filed Aug. 18, 1920. Serial No. 404,363. 1 Claim. (Cl. 173—28.)



An insulating coupling unit for pull-socket ball-chains, consisting of an intermediate insulating member, and two wire clips formed at their adjacent ends with hooks for engagement with the respective ends of the said member and at their outer ends with eyes for the reception of the end balls of pull-socket ball-chains, the body-portions of the said clips being parallel with the longitudinal axis of the said insulating member, and the hook and eye portions thereof extending at a right angle to the said axis.

1,419,645. PLOTTING INSTRUMENT. FRANK R. SANTORI, New York, N. Y. Filed Dec. 10, 1920. Serial No. 429,631. 3 Claims. (Cl. 33—149.)

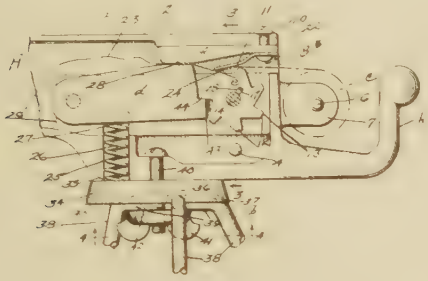


1. A plotting instrument comprising an intermediate pointer, two additional pointers connected with said intermediate pointer, and adjustable relatively thereto in directions transverse to each other upon a common plane, all of said pointers having a fixed relation to each other in which the active ends thereof are capable at all times of coincidentally engaging a surface in said plane, and means for fixing one of said additional pointers in its adjusted position against movement relatively to said intermediate pointer.

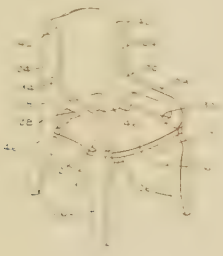
1,419,646. TOY MACHINE GUN. ARTHUR W. SAVAGE, San Diego, Calif. Filed Apr. 2, 1921. Serial No. 457,907. 3 Claims. (Cl. 42—57.)

1. A toy machine gun including a barrel consisting of hollow complemental sections forming a mechanism cham-

ber at the breach end thereof, said sections also having a feed port, lugs offset from the breach ends of said sections adjacent the feed port, and detonating means arranged within said mechanism chamber, said means comprising a toothed trigger and feeding wheel, a tensioning spring cooperating therewith, an anvil, and a spring tensioned hammer for engaging said anvil and adapted to be actuated by the said toothed wheel.

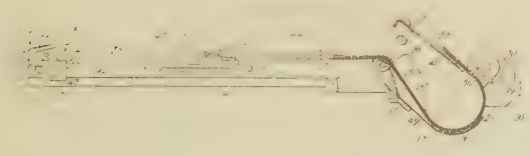


1,419,647. ARTICLE OF FURNITURE. WILLIAM L. SHEPHERDSON, Minneapolis, Minn. Filed Apr. 25, 1921. Serial No. 464,240. 2 Claims. (Cl. 155—196.)



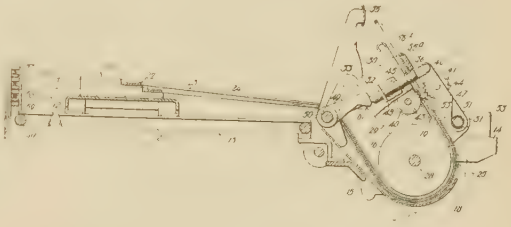
1. An article of furniture comprising a pair of oppositely positioned vertical supporting members having horizontal supporting portions disposed below their upper ends, a vertical locking member having interlocking engagement with said pair of supporting members at the upper ends thereof, and at places intermediate said upper ends and said horizontal supporting portions, and a horizontal member adapted to rest upon said horizontal supporting portions and to be held in place by snapping under the lower ends of said locking member.

1,419,648. TYPEWRITING MACHINE. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 2, 1920. Serial No. 355,591. 20 Claims. (Cl. 197—126.)



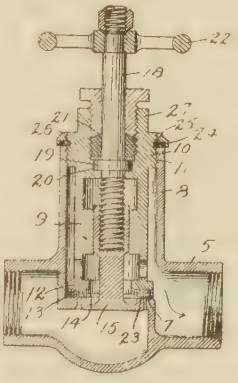
1. In a typewriting machine, the combination with a traveling carriage and a revoluble platen therein, of a device past which work-sheets are drawn in passing around the platen, a pin forming part of said device, and a spring adapted to press said pin upon the surface of the work-sheets and to cause it to enter perforations in superposed work-sheets to align them by bringing the perforations to register.

1,419,649. TYPEWRITING MACHINE. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed May 8, 1920. Serial No. 379,701. 17 Claims. (Cl. 197—126.)



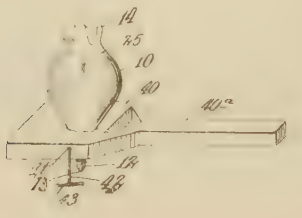
1. In a typewriting machine, the combination with a carriage and a platen displaceable therein, of normally ineffective aligning rolls above the platen, feed-rolls for holding sheets upon the platen in the normal position thereof, means for making said aligning rolls effective by the displacing of the platen, and a handle independent of the platen for rotating them to feed the work-sheets.

1,419,650. VALVE. OTTO A. SORENSEN, New York, N. Y. Filed Nov. 10, 1919. Serial No. 336,861. 2 Claims. (Cl. 251—48.)



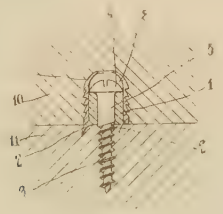
2. A valve casing provided with a seat, a valve carrier insertable in the casing toward the seat, a packing member bodily carried by said valve carrier and adapted to be interposed between the inner end of the carrier and the seat, said valve carrier having an angular bore therethrough intermediate its ends, a valve element having an angular shaped stem portion slidably engageable within the angular bore of the valve carrier, a headed portion on said valve element extending beyond the inner end of the carrier and arranged for engagement with the packing member, and a valve operating stem rotatably mounted but held against longitudinal movement in the carrier and having a screw threaded connection with the valve element.

1,419,651. SPINNING TOP. STEPHEN SZUCS, Homestead, Pa., assignor of one-third to Andrew Dudas, Homestead, Pa. Filed Sept. 8, 1921. Serial No. 499,259. 5 Claims. (Cl. 46—32.)



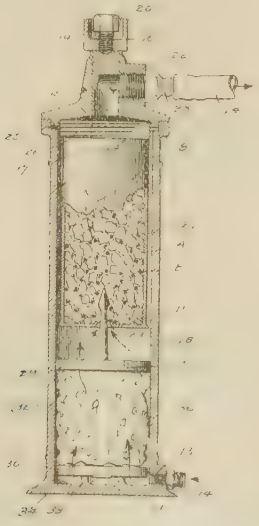
1. A top comprising a hollow body, and means in said body for discharging a blast of air therefrom, said means including a bellows device, and power mechanism for operating said bellows device.

1,419,652. DOWEL. JOHNSTON TURNER, Sheffield, England. Filed Sept. 7, 1921. Serial No. 498,982. 2 Claims. (Cl. 85—41.)



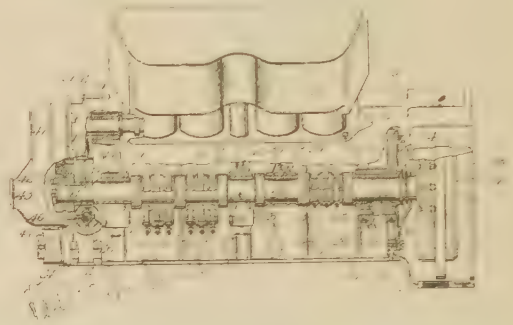
1. A dowel comprising a body portion having an axial bore extending therethrough and small prongs for temporarily securing the body portion in position and extending laterally of and beyond one end of the body portion in combination with a headed screw or pin, the point of which is adapted to project from the pronged end, the head of the screw or pin engaging the opposite end of the body so as firmly to secure the body after it has been temporarily positioned by means of the prongs.

1,419,653. PORTABLE APPARATUS FOR GENERATING POISONOUS GASES. JAMES W. VAN METER, San Francisco, Calif. Filed Aug. 31, 1920. Serial No. 407,073. 8 Claims. (Cl. 43—124.)



3. A portable apparatus for generating poisonous gases comprising a collapsible support, a scale supported thereon, a chlorine container adapted to be removably positioned on said scale, a combustion chamber having an inlet and an outlet, a flexible conduit between said inlet and said container, valve means in said conduit for controlling the flow of chlorine to said combustion chamber, and a chemical cartridge adapted to be removably engaged in said combustion chamber.

1,419,654. HYDROCARBON MOTOR. D'ORSAY MCCALL WHITE, Detroit, Mich., assignor to Cadillac Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 4, 1915. Serial No. 64,960. 3 Claims. (Cl. 121—122.)

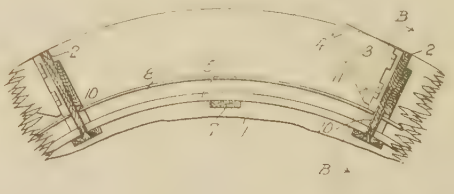


1. In a V type multicylinder hydrocarbon motor, a cylinder supporting crank case comprising a pair of sloped cylinder supporting walls and a pair of side walls integral with and extending downwardly from the lower edges of said sloped walls, and having bearings supported at intervals throughout the length thereof and substantially midway of the height of said side walls; and transversely extending webs extending between said side walls and portions of which webs depend below said bearings.

1,419,655. PROCESS FOR THE CONVERSION OF SULPHATE OF LEAD WATER PASTE INTO OIL PASTE. DAVID WHYTE, Gisborne, New Zealand. Filed June 27, 1921. Serial No. 480,880. 2 Claims. (Cl. 134—72.)

1. A process for the conversion of sulphate of lead water pastes into oil pastes consisting in the submission of the water paste to an initial drying operation by which the free water is expressed and then in the submission of the lead to a churning action with oil in just sufficient quantity to break out the waters of crystallization from the lead particles and to be taken up by the said particles to form a stiff oil paste, substantially as specified.

1,419,656. APPARATUS FOR FILING CARDS. DAVID TOMLINSON BAIRD WOOD, London, England. Filed Jan. 26, 1921. Serial No. 440,016. 13 Claims. (Cl. 129—16.)



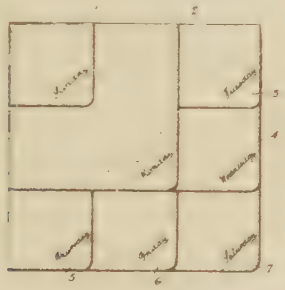
1. In apparatus for filing cards, the combination of a container, a card-retaining element carried thereby, a sliding floor, and a second card-retaining element carried by said floor and cooperating with said first element.

8. In apparatus for filing cards, the combination with a card-container having ends, of a triangular flap hinged to one end of the container and adapted to occupy two positions, in one of which it lies parallel to said end, and in the other, at right angles thereto.

1,419,657. OPTICAL TOY. HARRY WHITE AKROYD, Philadelphia, Pa. Filed July 9, 1921. Serial No. 483,505. 4 Claims. (Cl. 46—37.)

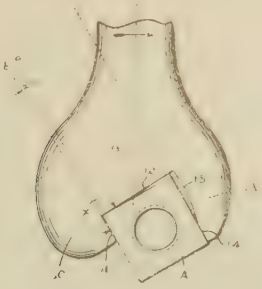
3. A toy comprising a sheet of paper having crescent shaped apertures formed therein and a disk formed thereby, said disk having different figures of the same object thereon, and parallel creases whereby said disk is hinged to the ends of said sheet.

1,419,658. HANDKERCHIEF SET. IRVIN S. BACH, East Rockaway, N. Y., assignor to Adams-Bach Hdkf. Mfg. Co., New York, N. Y., a Corporation of New York. Filed Apr. 13, 1921. Serial No. 461,063. 4 Claims. (Cl. 206—46.)



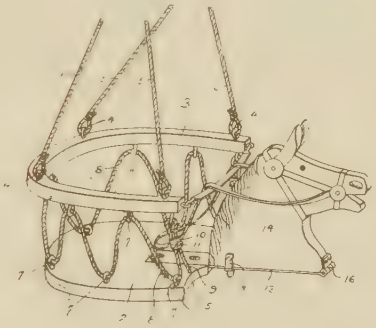
1. A handkerchief set, comprising a plurality of handkerchiefs provided on corresponding portions thereof with markings having a serial arrangement, said handkerchiefs being displaced relative to each other to expose all of said markings and said plurality of handkerchiefs being folded on lines at right angles to each other to permit removal one at a time without disturbing the rest in the order of said serial arrangement.

1,419,659. WRENCH. DAVID C. BETTISON, Omaha, Nebr. Filed Oct. 31, 1921. Serial No. 511,678. 3 Claims. (Cl. 81—119.)



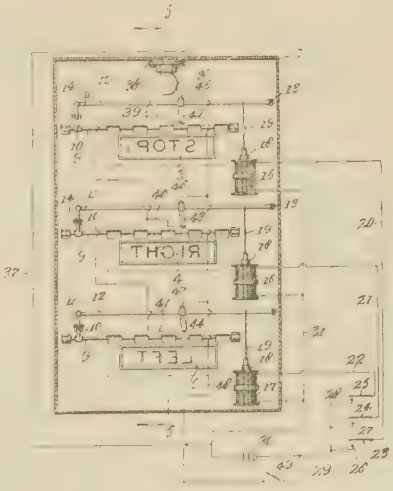
1. A wrench of the class described, comprising an integral handle and head, the latter having fixed jaws with spaced plane-surfaced working faces convergent outwardly of the throat-space between them, one of said jaws of a length less than one-half the length of the other, the latter jaw being of a length approximately the width of the throat-space, the end of the throat-space adjacent to the shorter jaw being a plane surface extending at a right angle to the working face of said jaw, the working face of the longer jaw extending from the end thereof less than half way to the end of the throat-space, and the remaining portion of the face of said jaw being recessed to provide a clearance-space opposite the working face of the short jaw.

1,419,660. SWING. CLARENCE J. CLOUSER, Columbus, Ohio. Filed Aug. 30, 1920. Serial No. 406,745. 2 Claims. (Cl. 155—58.)



1. In a child's swing, a seat structure capable of being suspended for oscillatory movement, a resilient metallic extension projecting from the forward edge of said seat structure, the inner end of said extension being directly connected to said seat structure so that the outer portion of said extension will be permitted to vibrate relatively to said seat structure, and a head like object mounted upon the vibratory outer end of said extension.

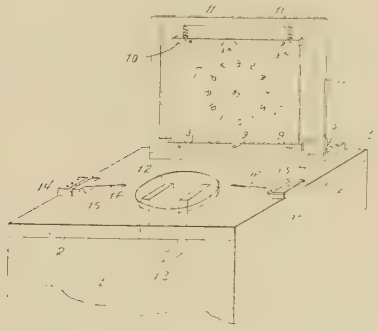
1,419,661. AUTOMOBILE TRAFFIC SIGNAL. VINCENT DE DOMINICIS and FRANK A. REIP, East Orange, N. J. Filed Dec. 20, 1919. Serial No. 346,339. 1 Claim. (Cl. 177—330.)



A signalling device for vehicles comprising a casing having a display opening, a panel having signal indicia thereon disposed over the opening and being of translucent material, a rock shaft disposed within the casing and just above the opening and lying longitudinally of said opening, a cover secured at its upper longitudinal edge to the rock shaft within the casing and being curved outwardly to the exterior of the casing and adapted to

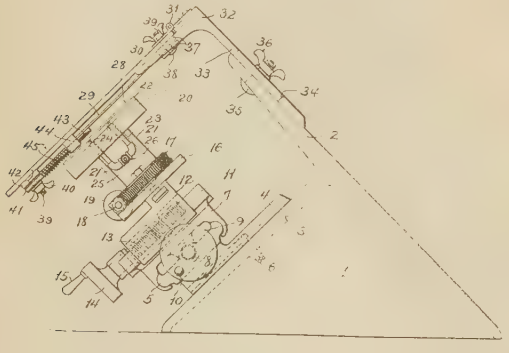
lie in front of the opening to normally obscure the same, an arm on said rock shaft, a link connected to the free end of said arm and extending upwardly within the casing, a lever pivoted in the casing and disposed parallel with said rock shaft and substantially centrally of the casing, said lever having its free end coupled to said link, electro-magnetic means adapted to draw down said lever, illuminating means in the casing, and fixed and movable contacts adapted to control said illuminating means, said movable contact being carried by said lever, substantially as described.

1,419,662. APPARATUS FOR FACILITATING THE APPLICATION OF LUMINOUS MATERIAL. REINER W. ERDLE, New York, N. Y., assignor to Radium Dial Company, Pittsburgh, Pa. Filed Mar. 7, 1921. Serial No. 450,438. 5 Claims. (Cl. 101—126.)



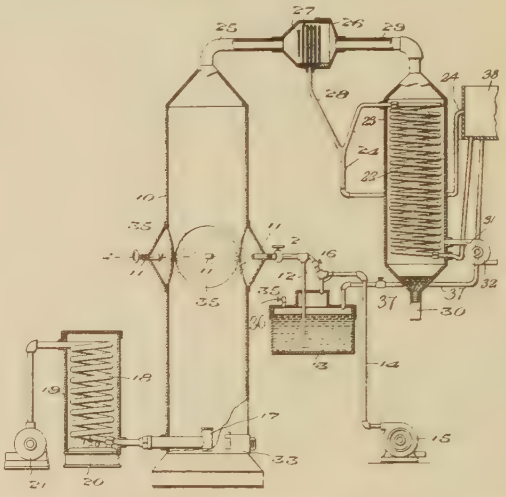
1. In a device of the character described, the combination of means for retaining an object to be stenciled against accidental movement in any direction but permitting said object to be moved over the retaining means for adjusting purposes, and a carrier for a stencil movably mounted to permit the latter to be moved toward and from the object mounted over the retaining means.

1,419,663. STENCILING DEVICE. REINER W. ERDLE, New York, N. Y., assignor to Radium Dial Company, Pittsburgh, Pa. Filed Apr. 19, 1921. Serial No. 462,688. 5 Claims. (Cl. 101—126.)



1. In a stenciling device, the combination with a work supporting table and means for rotatably and laterally adjusting the same, of means for retaining work on said table, a stencil frame and means adjustably supporting said stencil frame whereby the stencil may be moved toward or away from the work while in a plane substantially parallel with that of the work.

1,419,664. DESICCATOR. HENRY B. FABER and WILLIAM H. HARDING, Jr., New York, N. Y., assignors to Atomized Products Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 26, 1917. Serial No. 157,556. 6 Claims. (Cl. 127—9.)

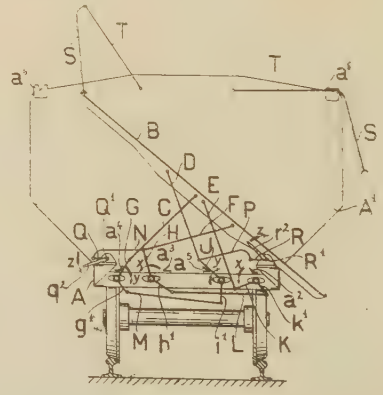


1. In a desiccator, the combination of a tower, means for feeding a draft of heated air through the tower, means for feeding liquid in a nebulized state into the path of the heated air, a condenser connected to the tower for receiving the moisture laden heated air and condensing the moisture therein upon entrained solid constituents, a liquid supply tank connected to the condenser for receiving the products of condensation from the condenser and returning the same to said liquid feeding means, a second condenser connected to the first condenser to receive the saturated heated air freed from the solid constituents, and a liquid preheating coil in the second condenser connected to said supply tank to heat the liquid therein and adapted to be heated by the air in the second condenser.

1,419,665. PLASTIC COMPOSITION. WALTER THEODORE FELS, Mount Vernon, N. Y., assignor of one-half to Jacob Ferber, Mount Vernon, N. Y. Filed Jan. 14, 1921. Serial No. 437,316. 2 Claims. (Cl. 106—34.)

1. A plastic composition comprising in approximate proportion, 60% ashes, 30% plaster Paris, 9% lime and 1% glue.

1,419,666. DUMPING RECEPTACLE. FRITZ FINCKH, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed July 18, 1921. Serial No. 485,555. 7 Claims. (Cl. 105—260.)



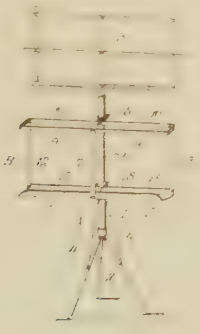
1. A dumping receptacle of the class described comprising a tiltable floor, pairs of crossed links supporting

said floor, said pairs of links being disposed on opposite sides of the central longitudinal plane of the receptacle and supporting members pivoted to the frame of the receptacle and each connected to one of the links of the pairs of crossed links.

1,419,667. TIME-CONTROLLED THERMOSTAT OR THE LIKE. CHARLES L. FORTIER, Milwaukee, Wis., assignor to Johnson Service Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 28, 1919. Serial No. 341,137. 5 Claims. (Cl. 236—46.)

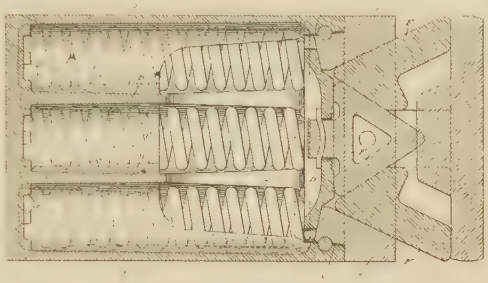
1. The combination of a responsive element; a coactive member; adjusting means for determining the relation between said element and member; a stop for determining the normal position of said adjusting means; a releasable friction brake for retaining said adjusting means away from said stop; a normally restrained spring urged member, adapted when released to force said adjusting means against said stop; and time controlled means for concurrently releasing said friction brake and said spring urged member.

1,419,668. FOLDING MUSIC HOLDER. CHARLES IRVING FULLER, Rochester, N. Y. Filed Feb. 19, 1921. Serial No. 446,342. 3 Claims. (Cl. 45—58.)



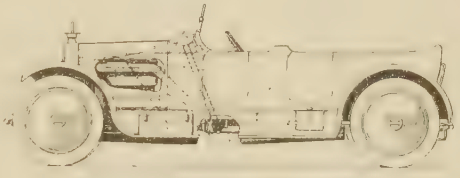
2. A folding music holder comprising a pair of horizontally disposed channel members arranged end to end, a pair of upright bars pivotally connected at their lower ends to each of the channel members, a pair of horizontal strips forming a rectangular frame pivotally connected to the upper ends of the vertical bars, and a pair of strips pivotally connected to the horizontal strips at their upper ends and to the outer ends of the channel members at their lower ends, and attaching clips connected to one of the upright bars for attaching the holder to the upright stem or post of the music stand.

1,419,669. DRAFT GEAR FOR RAILWAY CARS. RICHARD D. GALLAGHER, Jr., Flatbush, N. Y. Filed Aug. 11, 1921. Serial No. 491,543. 7 Claims. (Cl. 213—64.)



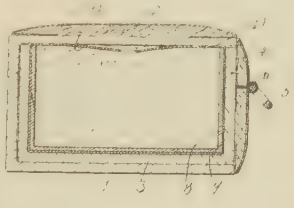
1. A draft gear comprising a spring barrel closed at one end and open at the other and having a series of inwardly tapering spring cells extending parallel with the line of draft strains, said cells being formed by a plurality of longitudinal partitions having their central portions at the forward ends cut away to form a central working space for the spring plate and their rear ends of gradually increasing cross sectional area and merging into the rear end wall of the barrel, independent springs located in said cells, a spring plate against which the forward ends of the springs abut, a follower and friction elements intermediate the follower and spring plate.

1,419,670. COOKER. JOHN F. GEISENDORFER, Sacramento, Calif. Filed Oct. 13, 1919. Serial No. 330,339. 3 Claims. (Cl. 126—20.)



1. A cooking attachment for an automobile consisting of a housing having a chamber formed therein for the reception of cooking utensils, an inlet pipe connected with said chamber, a steam generator located in the exhaust manifold on the engine with which the inlet pipe is connected, a water supply tank, a pump by which water is delivered to a needle valve, a pipe connecting said needle valve with the generator, said needle valve adapted to regulate the flow of water to the generator and a by-pass pipe from the needle valve by which surplus water is returned to the tank.

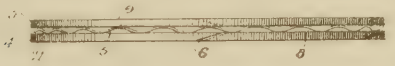
1,419,671. PAPER TOILET BOX. M MARTIN GORDON and FANNIE B. GORDON, Chicago, Ill. Filed Jan. 4, 1921, Serial No. 434,909. Renewed Apr. 15, 1922. Serial No. 553,018. 1 Claim. (Cl. 229—9.)



A paper toilet box having an open side, a drawer slidable into and out of said box, a removable tray

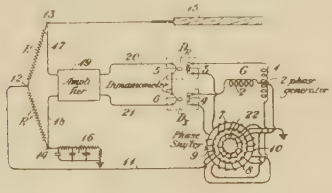
within said drawer, a panel disposed against the front wall of said drawer and extending beyond the edges thereof to conceal said drawer when the latter is in closed position, a pull-ring for said drawer, a ring-securing tape looped around said ring and extending through said panel, and adhesive means for securing said tape and said panel to the front wall of said drawer.

1,419,672. PISTON RING. WILLIAM R. HESLEWOOD and HARRY F. MOCINE, Oakland, Calif., assignors to Harry F. Mocine, William R. Heslewood, George J. Carr, and E. B. Kimball, trustees of the M and H Piston Ring Company. Filed Aug. 25, 1920. Serial No. 405,853. 3 Claims. (Cl. 74—109.)



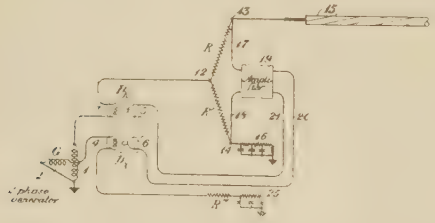
1. A piston ring of the character described comprising a pair of superposed circumferentially expansible rings, a spring wire ring interposed between the piston rings, said wire ring being corrugated horizontally and vertically, and means for maintaining said wire ring in a fixed concentric position with relation to the piston rings.

1,419,673. ELECTRICAL MEASURING APPARATUS. HARRY W. HITCHCOCK, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Oct. 18, 1920. Serial No. 417,763. 9 Claims. (Cl. 179—175.)



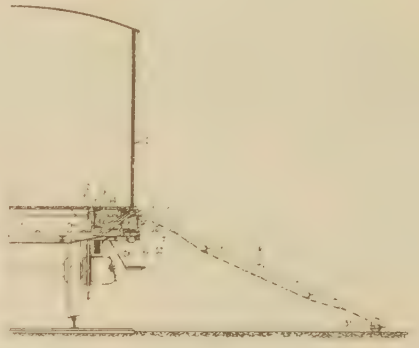
9. In an electrical measuring device, the combination with an impedance of a second impedance designed to simulate the said first impedance, a source of multiphase alternating potential, an electro-dynamometer having its movable coils bridged across the said impedances and each fixed coil connected with its respective phase winding of the said source, and a phase shifter adapted to apply an alternating potential to said impedance and to control the phase thereof with respect to the multiphase potential from the said source.

1,419,674. ELECTRICAL MEASURING APPARATUS. HARRY W HITCHCOCK, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Oct. 18, 1920. Serial No. 417,764. 4 Claims. (Cl. 179—175.)



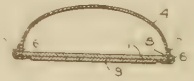
1. In an electrical measuring device, the combination with an impedance of a second impedance adjusted to approximately balance electrically said first impedance, a source of two-phase potential having one phase winding connected with said impedances in parallel, and the second phase winding connected with a current-balancing arrangement, and means connected with said impedances and said source of potential to indicate the nature and magnitude of the unbalance existing between said impedances.

1,419,675. RAILWAY BAGGAGE OR GENERAL-GOODS CAR. LYBERAT HUWYLER, Goldau, Switzerland. Filed Jan. 27, 1920. Serial No. 354,362. 3 Claims. (Cl. 214—85.)



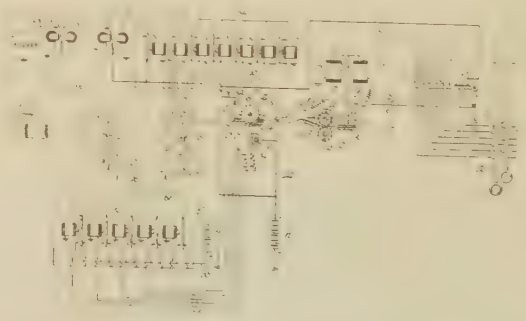
1. A skid, rollers thereon, at its ends, guides in which the skid is mounted for movement, guide pieces at the ends of the guides, each having an inclined guide way and a branched-off guide way at the upper portion of said inclined guide way, switches to direct the skid from the horizontal to the inclined guide ways, and operating means for the switches automatically actuated by the rear rollers of the skid, when the latter is drawn outwardly, to cause the rear end of the skid to be elevated.

1,419,676. SHOE. DANIEL KOCH, Roxbury, Mass. Filed Mar. 26, 1919. Serial No. 285,201. 4 Claims. (Cl. 36—1.)



1. A shoe comprising a sole and an upper, a reenforcing wire extending along the margin of said sole in the plane of said sole and a confining strip of material enclosing said wire and the edge portions of the sole and upper and means for securing the edge portions of said confining strip to said sole and upper.

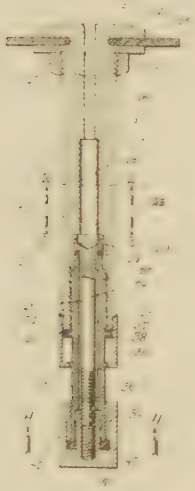
1,419,677. TRANSMITTER FOR SELECTIVE OR PRINTING TELEGRAPHS. CHARLES L. KRUM and HOWARD L. KRUM, Chicago, Ill., assignors to Morkrum Company, Chicago, Ill., a Corporation. Original application filed May 17, 1915, Serial No. 28,699. Patent No. 1,366,812, dated Jan. 25, 1921. Divided and this application filed Jan. 21, 1921. Serial No. 438,809. 10 Claims. (Cl. 178—17.)



1. In selective telegraphs in which the signals are represented by combinations of impulses, the combination

of a set of tape-controlled impulse selectors, a switch mechanism cooperating therewith to impart the selected impulses to the line, means for feeding the tape in timed relation to the operation of said switch mechanism, a tape former, and means controlled by the tape former and operable to automatically stop said switch mechanism and said tape feeding means only between completed signals.

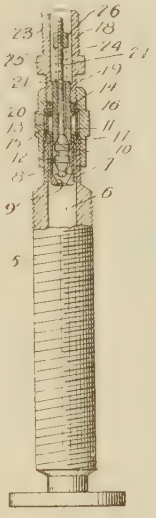
1,419,678. VALVE. ZENO LITTMAN, New York, N. Y., assignor to Littman Loxair Valve Corporation, a Corporation of Delaware. Filed Aug. 8, 1919. Serial No. 316,064. 5 Claims. (Cl. 152—12.)



1. In an air valve structure, the combination of a valve casing having a stop, a valve member movable therein toward and away from said stop, the casing and the valve member being so formed and arranged that in all positions of the valve member in the casing an air passage is provided between the valve member and the casing and an annular valve seat member fitting within the casing and carrying a valve seat at its inner end for co-action with the outer end of the valve member, there being an air passage in the casing leading to the inner end of the valve member and an air passage in the annular member leading to the outer end of the valve member, said valve seat member being adjustable toward the stop to drive the valve member against the stop and put the valve member and valve seat into coaction and adjustable away from the stop to permit play of the valve member between the stop and the valve seat.

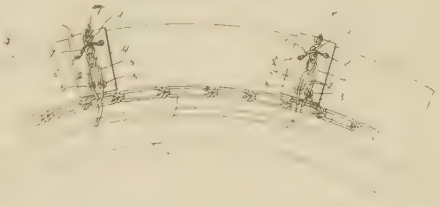
1,419,679. PNEUMATIC VALVE. ZENO LITTMAN, New York, N. Y., assignor to Littman Loxair Valve Corporation, a Corporation of Delaware. Filed Mar. 1, 1920. Serial No. 362,208. 8 Claims. (Cl. 152—12.)

1. A pneumatic valve comprising a valve casing, a tubular element seated in said valve casing and having an outwardly facing valve seat, a nut securing said valve seat member to the valve casing, a tubular element carrying an inwardly facing valve seat opposed to the outwardly facing valve seat, a double-ended valve operable between said valve seats and a support for said second valve seat member having a threaded connection with the securing nut aforesaid and adjustable to carry said valve seat



member and with it the valve toward and away from the first valve seat member.

1,419,680. ANTISKIDDING DEVICE. JOSEPH A. MAGUIRE, Gettysburg, Pa. Filed Oct. 24, 1921. Serial No. 510,063. 5 Claims. (Cl. 152—14.)

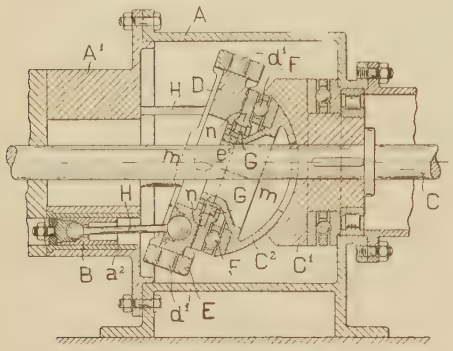


1. In combination with an anti-skidding device including tread chains, a protecting strip underlying each of the tread chains, means for securing the opposite end portions of each of said strips to a tread chain, and a span member secured to the strip and bridging the tread member to hold the intermediate portion of the tread member to the strip.

1,419,681. ROLLER BEARING FOR THE CAM DISKS OF CAM-DISK GEARINGS. FRIEDRICH MARTIN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Nov. 19, 1920. Serial No. 425,084. 4 Claims. (Cl. 74—14.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

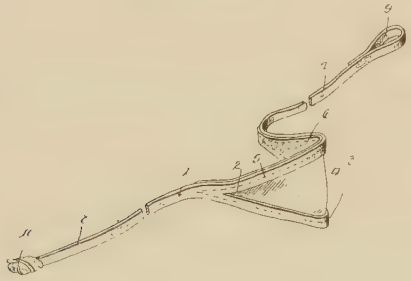
1. A bearing for cam disk gearing comprising a casing, a cam disk, said cam disk being mounted by a Cardan suspension, a two-part bearing member for said cam disk rotatable relatively to said casing and radial rollers dis-

posed between said cam disk and bearing member at a distance from the plane of the points of suspension of the



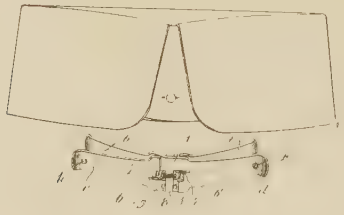
Cardan joint, the axes of said radial rollers being parallel to the axis of their associated part of the bearing member.

1,419,682. SHOT-PUTTING SLING. GEORGE B. MILES, Washington, Ill. Filed Feb. 8, 1922. Serial No. 535,005. 3 Claims. (Cl. 124—1.)



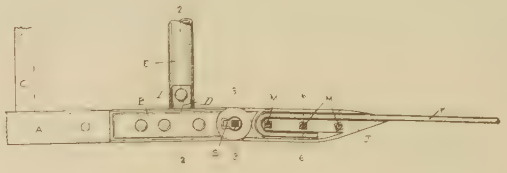
1. A shot putting sling comprising an integral thong divided longitudinally by an incision at an intermediate portion of its length to provide spaced strands, and a web marginally united to the strands and extending between the same to form a missile receiving pocket.

1,419,683. DOUBLE CLASP. MARCUS L. MINOR, Atlanta, Ga. Filed July 1, 1921. Serial No. 481,862. 5 Claims. (Cl. 24—49.)



1. A device of the class described including a pair of crossed strips of like construction, each having spaced recesses extending transversely from one edge of the strip forming a tongue, one end of each strip being provided with a perforation, said strips being adapted to be disposed in transverse alignment whereby the perforated ends of the strips extend beyond the non-perforated ends and the tongues on said strips are disposed in opposed relation, and means carried by the strips for retaining the ends in clamping engagement.

1,419,684. OVERHEAD-TRACK CONNECTION. ALBERT H. NELLER, Fairfield, Iowa. Filed Apr. 3, 1922. Serial No. 548,893. 7 Claims. (Cl. 104—87.)



1. In overhead track connections for joining rigid and flexible tracks together, the combination of a rigidly supported connecting member adapted to be joined to the adjacent end of a rigid track, and a flexible track supporting member having a hinged connection with the rigidly supported connecting member, the latter member being adapted to support the adjacent end of a flexible track and permit it to spring downward without being bent at the point where it is connected to the rigidly supported member.

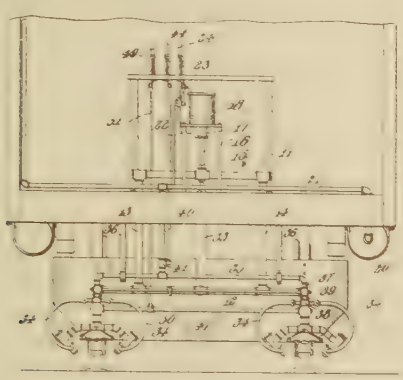
1,419,685. METHOD OF DETECTING GASES. EDWIN P. S. NEWMAN, Washington, D. C., assignor to Newton D. Baker, Secretary of War, trustee. Filed Dec. 6, 1919. Serial No. 343,140. 4 Claims. (Cl. 73—51.) (Filed under the act of Mar. 3, 1883, 22 Stat L., 625.)

1. In a method of detecting gases, simultaneously exposing one side of a pressure diaphragm to the pressure of the atmosphere in the intermediate vicinity of said diaphragm and where the higher concentrations of the gas to be detected are free to occur and the other side of said diaphragm to the pressure of the atmosphere from a higher elevation and where lower, negligible or no concentrations of the gas to be detected are likely to occur and then observing the movement of said diaphragm.

1,419,686. TRACK-SPRAYING APPARATUS. JOHN NICHOLSON, deceased, late of Houston, Tex., by Kate B. Nicholson, executrix, Houston, Tex., assignor to The Texas Company, New York, N. Y., a Corporation of Texas. Filed Mar. 10, 1920. Serial No. 364,842. 13 Claims. (Cl. 299—31.)

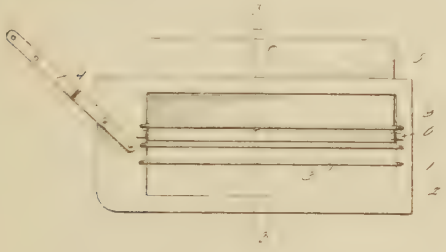
3. Apparatus comprising a car adapted to be propelled over a railway track, spraying mechanism arranged to discharge liquid on the sides of the rails, means for sup-

plying liquid to the spraying mechanism, means for raising and lowering the spraying mechanism and automatic



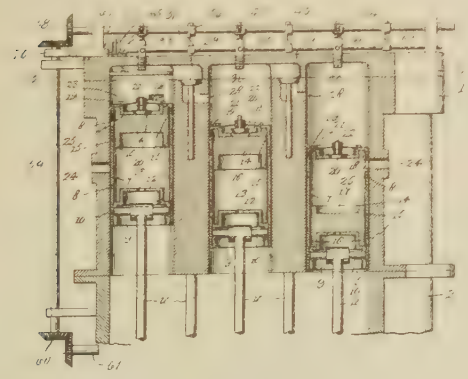
means dependent on the raising and lowering of the spraying mechanism for controlling the supply of liquid thereto.

1,419,687. CULTIVATOR SHIELD. HERMAN OTTO, Jackson, Mich. Filed Aug. 24, 1921. Serial No. 494,808. 2 Claims. (Cl. 97—13.)



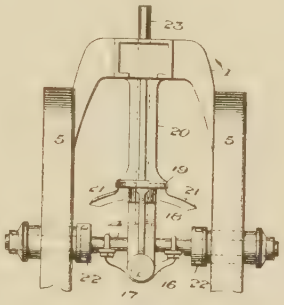
1. A cultivator shield including a shield plate having an opening therein, a plurality of spaced bars extending across the opening, a pair of clips fixed to the shield plate adjacent the opening, and a slidable closure frictionally engaged by the clips so as to be held in desired adjusted position for regulating the size of the opening in the shield plate.

1,419,688. INTERNAL-COMBUSTION ENGINE. COMMODORE THOMAS PEIGLER, Rock Hill, S. C. Filed Oct. 25, 1920. Serial No. 419,344. 10 Claims. (Cl. 123—54.)



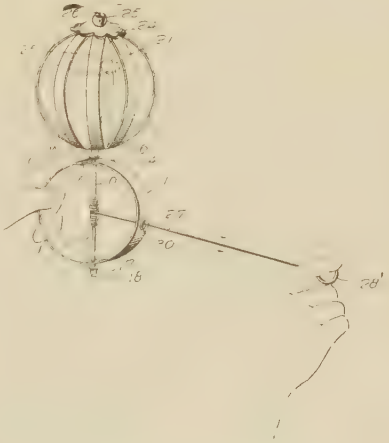
1. In an internal combustion engine, the combination of a cylinder, a hollow piston reciprocating therein, and a plunger built in the piston and adapted to draw in a fuel charge at or near the lower position of the piston while expelling such charge above the piston when the latter reaches the upper limit of its travel, substantially as described.

1,419,689. TRACTION ENGINE. ARTHUR W. PORTER, Colfax, Iowa. Filed Dec. 2, 1916, Serial No. 134,600. Renewed Oct. 31, 1921. Serial No. 511,841. 2 Claims. (Cl. 280—126.)



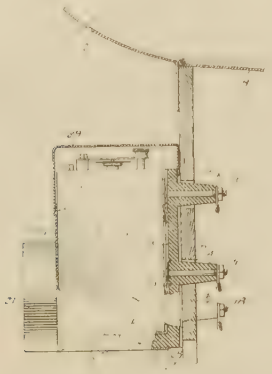
1. In a wheeled vehicle, the combination with a vehicle frame, of a laterally disposed turn table on which said frame rests, and stop brackets carried by the turn table, an axle pivoted intermediate its ends on a stationary pivot carried by the turn table for free up and down tilting movements within certain predetermined limits, and steering wheels carried by the axle on opposite sides of its pivot, said stop brackets being adapted to serve as abutments to arrest the axle to limit the amplitude of the free up and down movement thereof.

1,419,690. TOY. TEGRAN M. SAMOUR, Boston, Mass. Filed Mar. 26, 1921. Serial No. 455,752. 2 Claims. (Cl. 46—14.)



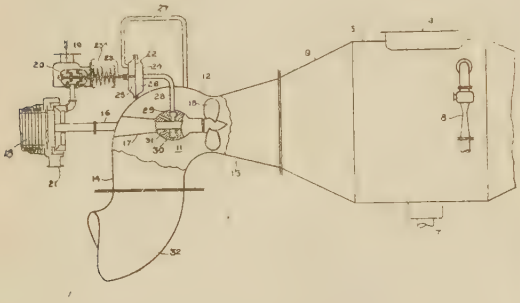
1. A toy comprising a journaling member composed of a ring having diametrically opposite bearing perforations, a shaft journaled in the perforations and extending diametrically across the ring, a head secured to the shaft without the ring, said head being composed of a plurality of arcuate bands overlapping each other in line with the axis of the shaft and corresponding substantially to a sphere, and a cord wound about the shaft within the ring.

1,419,691. ELECTRIC COIL BOX. ELMER A. SANDLING, Moss Point, Miss. Filed Jan. 20, 1919. Serial No. 272,124. 6 Claims. (Cl. 180—90.)



1. A one-piece moisture-proof supporting shelf for electric coils comprising a supporting base and an integrally disposed vertical side wall, having a series of integral terminal housings extending therefrom.

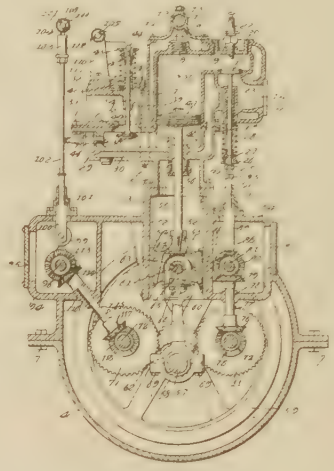
1,419,692. CIRCULATING PUMP. HENRY F. SCHMIDT, Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 16, 1920. Serial No. 374,374. 12 Claims. (Cl. 103—94.)



4. In a circulating system, a pump, means for driving said pump, means for controlling the speed thereof comprising in part a chamber divided by a diaphragm, an impeller operated by the driving means, an annular chamber surrounding the impeller and having means for admitting fluid from the interior of the pump to the inner periphery of the impeller, means connecting the outer part of the annular chamber with one side of the divided chamber, means connecting the other side of the divided chamber with the interior of the pump, and resilient means for opposing the differential pressure acting on the diaphragm.

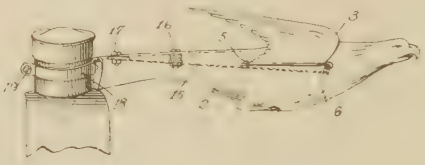
1,419,693. INTERNAL-COMBUSTION ENGINE. ALBERT C. F. SCHULTZ, Jr., Minneapolis, Minn. Filed June 4, 1918. Serial No. 238,159. 1 Claim. (Cl. 123—63.)

In an integral combustion engine, a cylinder closed at both ends but provided with an inlet and an outlet at each end, a tappet valve closing each inlet and outlet, a piston movable in the cylinder, a crank shaft driven by the piston, spur gears carried by the crank shaft, a cross head operatively connecting the piston with the crank shaft, a combined cross head and crank casing housing the cross head and provided on opposite sides of the crank shaft with cam casings, cam shafts housed in said cam casings and operatively connected with the inlet and exhaust valves transverse shafts mounted in the crank casing and provided with pinions meshing with the aforesaid spur gears, and shafts journalled in the walls of the cam casings and provided with terminal beveled



gears, the shafts in the crank casing and the cam shafts being correspondingly provided with beveled gears meshing with the aforesaid beveled gears.

1,419,694. MOBILE FIGURE. MARTINUS SIEVEKING, Staten Island, N. Y., assignor to Flying Eagle Company, Inc., a Corporation of New York. Filed Apr. 13, 1921. Serial No. 461,026. 3 Claims. (Cl. 46—40.)

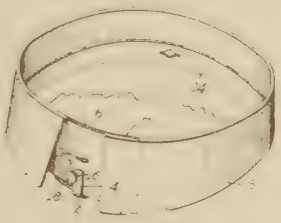


1. A figure of the character set forth, comprising a body member, means for mounting the body to effect vertical vibratile movement thereof, a pair of wing-like members vibratably mounted substantially horizontal on each side of the body and movable under the influence of vibrations of the body, an arm on each said wing member projecting inwardly, a spring secured to and within the body with one end free and operably engaging both said arms to retain the wing members in a certain normal position of rest relative to the body, whereby when the wing members are swung beyond said rest position in either direction by vertical movement of the body, said spring becomes tensioned to react and return the wing members by a synchronous movement to the said rest position.

1,419,695. PRODUCTION OF META-HYDROXYBENZALDEHYDE. JOHN B. SLIMM, Buffalo, N. Y., assignor to National Aniline & Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 6, 1921. Serial No. 435,544. 5 Claims. (Cl. 260—137.)

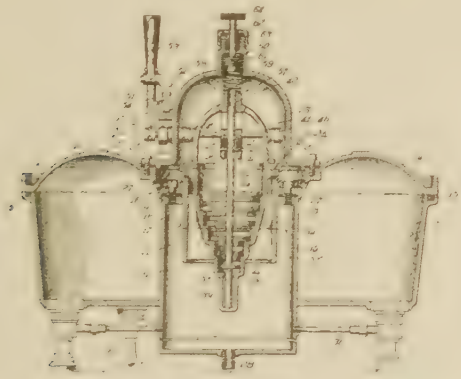
1. The method of producing meta-hydroxybenzaldehyde, which comprises subjecting a solution of meta-aminobenzaldehyde-bisulfite addition compound to diazotization, and simultaneously removing nitrogen and sulfur dioxide by heating the resulting solution of diazonium compound.

1,419,696. COLLAR FASTENER. GEORGE O. SMITH, Oakland, Calif. Filed Sept. 28, 1921. Serial No. 503,776. 1 Claim. (Cl. 24—80.)



A collar fastener comprising a U-shaped member adapted for the reception of the two ends of a collar, one of the legs of said member being formed concave on its inner side, a shank fixed to said leg and extending outward perpendicularly therefrom provided with a head arranged to be passed through the button-holes of a shirt band whereby the two ends of said band may be held between said leg and said head, and a screw threaded through the other leg of said member and aligned with said shank adapted to clamp the two ends of said collars against the concave surface of said first leg.

1,419,697. MACHINE FOR FILLING BOTTLES WITH CHARGED BEVERAGES. HORACE M. SMITH, Chicago, Ill., assignor to Liquid Carbonic Company, Chicago, Ill., a Corporation of Illinois. Filed June 3, 1918. Serial No. 237,839. 9 Claims. (Cl. 226—111.)



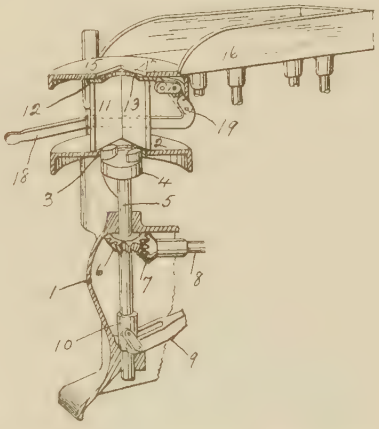
1. In a machine for filling liquids into bottles comprising a filling tank, a filling nozzle connected to the tank, and adapted to receive the mouth of a bottle, of an upper and a lower air chamber having a division wall provided with a valve seat between them, a connection from the upper chamber to the tank, a connection from the lower chamber to the filling nozzles, a connection for supplying the lower chamber with counterpressure air, and a valve cooperating with the seat and weighted to secure a difference in pressure between the air chambers and means extending through a sealed opening in the wall of the device for regulating the pressure of the valve.

1,419,698. TYPEWRITING MACHINE. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 22, 1920. Serial No. 375,676. 28 Claims. (Cl. 197—127.)

1. In a typewriting machine, in combination, a revoluble platen, means to grip a work-sheet at the delivery side of the platen, a spring-pressed pin to co-operate with perforations in a second work-sheet, to determine the proper positioning of the same at different times, and means to concomitantly render said gripping means effective and cause said spring-pressed pin to yieldingly engage said second work-sheet, so that the latter may be drawn forward with reference to the first work-sheet until said pin

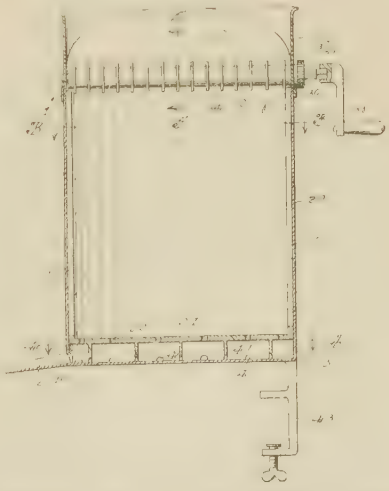
enters one of said perforations in the second sheet and prevents further movement thereof.

1,419,699. MOLD FOR CONCRETE MACHINES. CHARLES A. STEWARD, Plano, Ill. Filed Oct. 3, 1921. Serial No. 504,997. 5 Claims. (Cl. 25—36.)



1. A molding machine having in combination a mold box, a rotary packer, and a movable resistance plate provided with an opening of substantially the diameter of said packer, said plate being adapted to uncover the mold box while it is being charged.

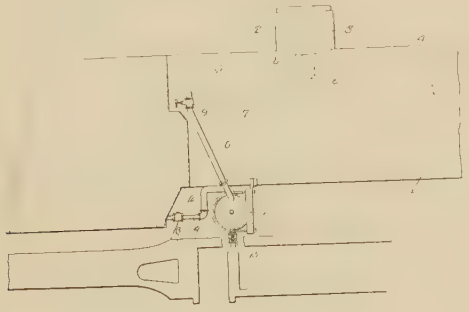
1,419,700. CIDER PRESS. HARRY F. STEWART, Springfield, Ill. Filed Feb. 12, 1920. Serial No. 358,169. 2 Claims. (Cl. 100—44.)



2. An apparatus of the class described comprising a receptacle, a screen or grating removably fitted in the re-

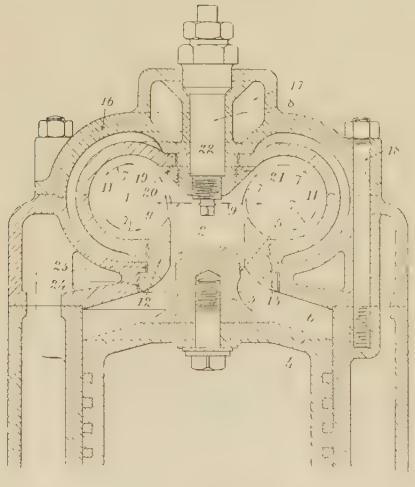
ceptacle and provided with upwardly extending guide arms arranged in guide grooves formed in the wall of the receptacle, a plunger provided with peripheral guide notches for engaging said guide arms, and means for forcibly advancing the plunger in the direction of the screen or grating.

1,419,701. APPARATUS FOR PREVENTING SCALE DEPOSIT AND FOAMING IN BOILERS. ABRAHAM A. STUTSMAN, Hammond, Ind. Filed Mar. 7, 1919. Serial No. 281,133. 2 Claims. (Cl. 122—400.)



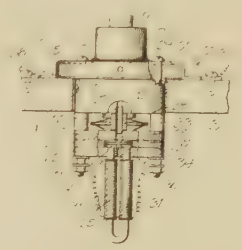
2. In combination with a boiler having a steam dome having a steam pipe therein, of a scale preventer comprising a collecting pan arranged substantially beneath the steam dome and spaced downwardly therefrom, said collecting pan having a closed bottom, a perforated side wall and an open top and being arranged at approximately the water level to collect sediment through all sides and top of the pan, a settling tank held beneath the boiler near the fire box, a relatively large pipe communicating with the bottom of the collecting pan and extending downwardly therefrom throughout its length and communicating with the top portion of the settling tank, means in the pipe to control the flow therethrough, and a second relatively short pipe communicating with the top portion of the setting tank and extending downwardly to the portion of the boiler about the fire box, a portion of said pipe being of reduced diameter and having a check valve therein, and a blow-off device in the base of the settling tank.

1,419,702. COMBUSTION CHAMBER FOR INTERNAL-COMBUSTION ENGINES. EUGÈNE HENRI TARTRAIS, Maisons-Laffitte, France. Filed July 14, 1921. Serial No. 484,806. 5 Claims. (Cl. 123—32.)



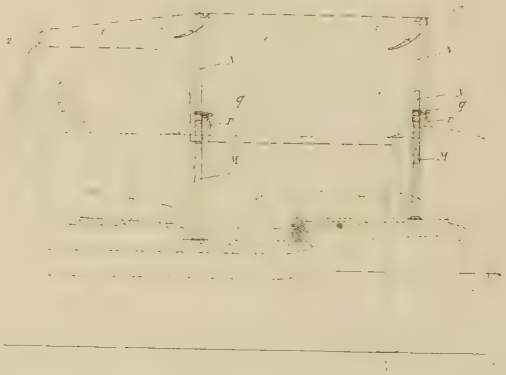
1. An internal combustion engine working with an injection of liquid fuel, comprising a cylinder, a separate combustion chamber having the shape of a torus, which communicates with the cylinder by a central opening into which a projection on the piston is adapted to engage, and an angular screwthreaded plug screwed into said opening in the combustion chamber, an amount of play being left laterally between the said plug and the adjoining part of the cylinder.

1,419,703. WIND CHEST AND VALVE ACTION FOR ORGANS. JAMES TOPP, Chicago, Ill., assignor to Eberson-Topp, Inc., Chicago, Ill. Filed Jan. 10, 1921. Serial No. 436,064. 20 Claims. (Cl. 84—338.)



8. In an organ, the combination with an organ pipe and a wind chest, of a unitary structure including a valve action bodily insertible in and removable from such chest, said structure comprising a block having a valve seat and a windway which receives the pipe, and a valve action connected with the block and cooperating with said seat.

1,419,704. HOOD FOR VEHICLES. GABRIEL VOISIN, Paris, France, assignor to Societe Anonyme des Aeroplanes G. Voisin, Paris, France. Filed Sept. 21, 1920. Serial No. 411,819. 1 Claim. (Cl. 296—98.)



A removable hood for vehicles provided with a wind shield, comprising telescoping uprights in the middle longitudinal plane of the vehicle body, said uprights embodying lower members secured to said vehicle body and concealed within the lining of the carriage body, and upper members, horizontal cross members made in one piece and rigidly secured respectively to said upper members, said cross members having such a shape that they will fit exactly the upper edge of the carriage body and a canvas member removably secured to the wind shield, the horizontal cross members and the carriage body.

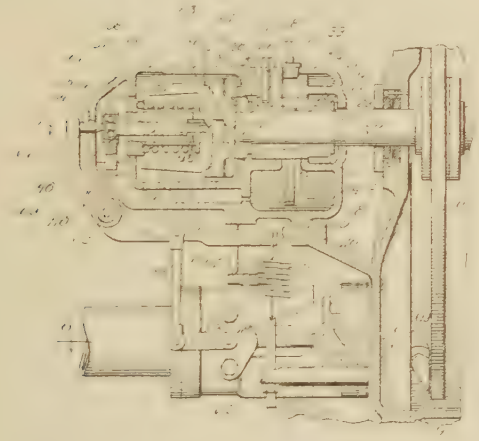
1,419,705. METHOD OF MAKING HOOPED METALLIC RECEPTACLES. FREDERICK G. WACKER, Chicago, Ill., assignor to Detroit Range Boiler & Steel Barrel Company, Detroit, Mich., a Corporation of Maine. Original application filed July 26, 1916. Serial No. 111,356. Patent No. 1,314,445, dated Aug. 26, 1919. Divided and this application filed July 26, 1919. Serial No. 313,448. 12 Claims. (Cl. 113—116.)

1. The method of forming a metallic barrel and rolling hoop thereon which consists in applying to the exterior

of the barrel a loosely fitting loop having an outwardly directed circumferential bead, expanding the body to form

circumferential beads at the edges of the hoop, and also expanding the barrel body into the said hoop bear.

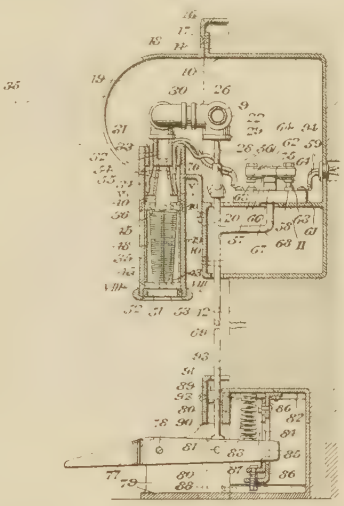
1,419,706. LUBRICATION FOR STEAM TURBINES. HENRY H. WAIT, Chicago, Ill., assignor to Midwest Engine Company, Indianapolis, Ind., a Corporation of Indiana. Filed Mar. 4, 1918. Serial No. 220,120. 6 Claims. (Cl. 64—24.)



1. In a device of the class described and in combination with the rotary shaft, a main bearing thereon, a thrust bearing on the shaft comprising a cup adapted to receive oil, a conduit leading from the main bearing to said cup, and means for collecting oil from said main bearing and directing it to the cup.

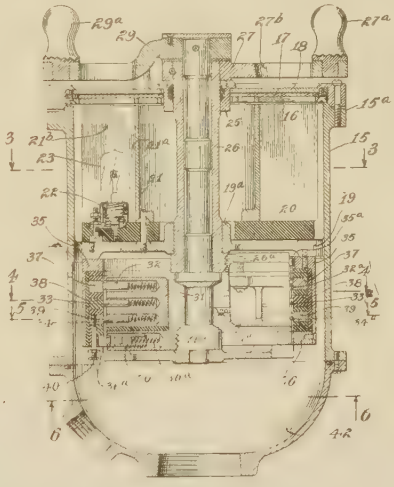
1,419,707. DRYING APPARATUS. DENTON J. WATROUS, Groton, N. Y., assignor to Airdry Corporation, Groton, N. Y., a Corporation of New York. Filed July 21, 1920. Serial No. 397,933. 20 Claims. (Cl. 34—26.)

6. A drying apparatus comprising an air-supply conduit, means for supplying air under pressure to said conduit, a plurality of air-discharge nozzles connected with said conduit, a plurality of valves for independently controlling the discharge of air from said nozzles, a plurality of electric heating devices for heating the air discharged through said nozzles, a plurality of electric switches each controlling the supply of current to one of said heating devices, a plurality of manually shiftable devices each operatively connected to simultaneously open the valve and close the switch associated with one of said nozzles, and spring



means for automatically restoring said devices to normal position when the same are released to close the valves and open the switches.

1,419,708. SIGNALING APPARATUS. FRANK W. WOOD, Montclair, N. J. Filed Jan. 4, 1919. Serial No. 269,682. 12 Claims. (Cl. 177—337.)

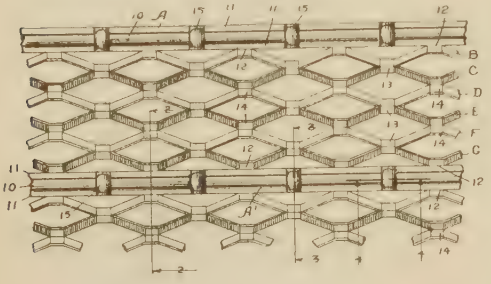


5. In signaling apparatus wherein the signals at two independent stations are made operative from a third station and wherein selective signaling circuits connect the third station with the two stations, means at the third station for selectively completing said circuits, said means including a casing, and independent circuit make and break elements independently rotative relative to a common axis within the casing with the elements positioned to move in the same plane intersecting such axis, each element having its control activity limited to the circuits of a single independent station.

1,419,709. EXPANDED METAL STRUCTURE. WILLIAM E. ACKERMANN, Portsmouth, Ohio. Filed Dec. 31, 1919. Serial No. 348,599. 1 Claim. (Cl. 72—117.)

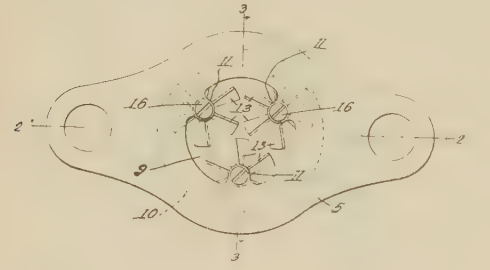
An expanded metal structure, comprising, longitudinally extending non-expanded, relatively wide strands provided

with corrugations extending lengthwise thereof; and a series of longitudinally extending relatively narrow strands interposed between a pair of said non-expanded strands, said narrow strands each extending diagonally alternately from and toward said wide strands, the narrow strands nearest said wide strands being united thereto by longitudinally spaced bonds, adjacent pairs of narrow strands being bonded in staggered relation at points corresponding to the corners of diamond-shaped openings, the narrow strands defining the four sides of each dia-



mond-shaped opening in alternate transversely extending series of such openings, being all convergingly inclined toward the same side of the sheet, said wide strands having longitudinally spaced transverse indentations therein effective to decrease the length thereof in accordance with the decrease in over-all length of said longitudinally extending strands due to the expansion thereof, laterally, into the diamond mesh, said transverse indentations occurring only intermediate the bonds between said wide strands and the adjacent narrow strands.

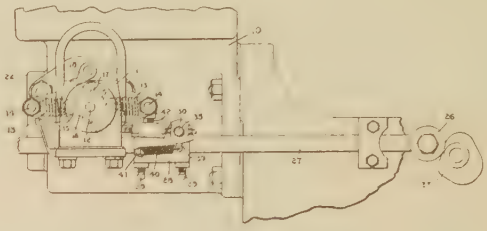
1,419,710. GASEOUS-FUEL MIXER. EDMOND C. ANGEL, Chattanooga, Tenn. Filed Apr. 2, 1921. Serial No. 457,834. 3 Claims. (Cl. 48—180.)



2. A gaseous fuel mixer comprising a body having a central opening and further provided with a circumferential groove upon its inner face that serves as a mixing chamber, and a plurality of rotatable agitating elements journaled at the edge of the opening to pass into the groove during their rotation whereby to cause a quantity of the gaseous fuel to circulate in the groove for thoroughly mixing.

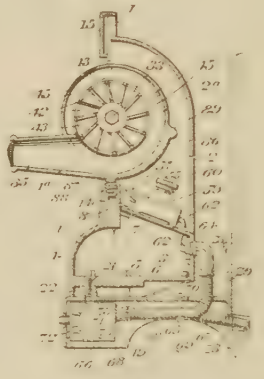
1,419,711. IGNITER TRIP MECHANISM. ARTHUR R. BAKER, Indianapolis, Ind., assignor, by mesne assignments, to Charles G. McCutchen, Indianapolis, Ind. Filed July 20, 1918. Serial No. 245,849. 18 Claims. (Cl. 123—149.)

1. A magneto having an oscillating movable member which is biased to one position, said movable member being provided with a trip finger; in combination with a reciprocable member, and a pusher movably mounted on said reciprocable member and co-operating with said trip finger, said pusher having a rounded operating side through which it engages said trip finger at a varying angle as it moves it, whereby the reaction of the bias of the magneto produces between the trip finger and the pusher an increasing cam action which at a predetermined



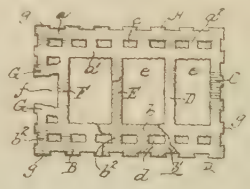
point pushes the pusher out of the path of the trip finger and permits said bias to move the movable member of the magneto to normal position.

1,419,712. DRYING MACHINE. JOHN GILBERT BASSETTE, Groton, N. Y., assignor to Airdry Corporation, Groton, N. Y., a Corporation of New York. Filed July 21, 1920. Serial No. 397,831. 12 Claims. (Cl. 34—26.)



6. In a drying apparatus, the combination of a casing having tubular end portions and an enlarged central portion provided with a nozzle and adapted to house an impeller, means for rotatably supporting the casing, said enlarged portion of the casing being formed with an external rib extending partly therearound having a continuous friction surface concentric with the axis of rotation of the casing and terminating at one end in a cam surface and at its other end in a stop shoulder, a spring-pressed shoe fractionally engaging said rib, an electric motor in one tubular end portion of the casing, an electric heating coil in the other end portion of the casing, and an impeller in the enlarged central portion of the casing mounted on the shaft of said motor, the end portion of the casing enclosing the heating coil being provided with an air intake.

1,419,713. HOLLOW BUILDING BLOCK. PHILIP H. BEVIER, Brooklyn, N. Y. Filed Aug. 19, 1919. Serial No. 318,568. 4 Claims. (Cl. 72—41.)



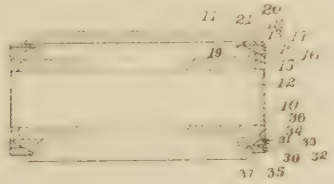
1. A hollow building unit comprising cellular side members, cross webs unitary with the side members, and other

transverse webs at one end of the block and joined to the respective cellular members and to one of said cross webs by a plurality of webs, the length of each transverse web exceeding the cross sectional thickness of one individual cellular side member and said transverse webs producing on the end face of the block a plurality of mortar beds of cellular formation the width of which exceeds the cross sectional thickness of the cellular side members.

1,419,714. MANUFACTURE OF VISCOSE SILK. EMILE BRONNERT, Mulhouse, France. Filed Aug. 30, 1920. Serial No. 406,912. 2 Claims. (Cl. 18—54.)

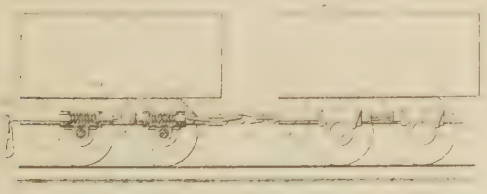
1. A process for the manufacture of very fine artificial silk fibres of from six to one deniers from raw viscose, which consists in forcing the viscose through suitable openings into a precipitating bath consisting of sulphuric acid and ammonium sulphate, the concentration of the acid component of the bath being inversely proportional to the square root of the fineness of the thread desired measured in deniers and the amount of acid per unit volume of said bath, reckoning the ammonium sulphate as equivalent to half its weight of sulphuric acid is not allowed to fall below a certain minimum weight, the said minimum being experimentally determined for any one denier number.

1,419,715. PISTON AND PISTON RING. WALTER W. BURNS, Greenport, N. Y., assignor to Harry B. Johnston, Seattle, Wash. Filed Aug. 5, 1920. Serial No. 401,357. 20 Claims. (Cl. 74—109.)



1. A piston ring having an inclined surface and comprising a plurality of ring sections, two of the sections having contacting walls lying in a plane, the ring having a greater axial thickness than radial thickness.

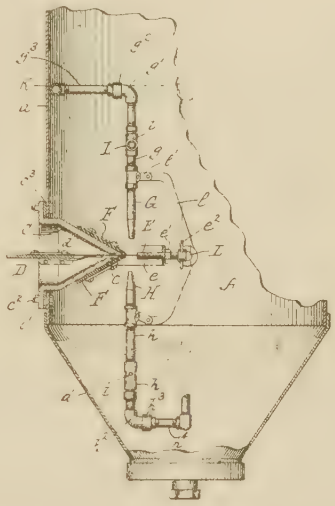
1,419,716. COMBINED DRAWBAR AND AXLE-SUPPORTING APPARATUS FOR CAR TRUCKS. CHARLES S. CARD, Denver, Colo. Filed Mar. 4, 1922. Serial No. 541,108. 14 Claims. (Cl. 295—42.)



1. A draw-bar and axle-supporting mechanism operatively mounted in duplicate sets on the opposite ends of cars, each set being independent of the other, and each mounted in one integral one-piece casting.

1,419,717. MEANS FOR CLEANING METALS PREPARATORY TO WELDING. SPENCER C. CARY, Brooklyn, and JAMES M. BETTON, Mount Vernon, N. Y., assignors, by direct and mesne assignments, to Cary Manufacturing Company, Brooklyn, N. Y., a Corporation of New York. Filed Feb. 8, 1917. Serial No. 147,350. 15 Claims. (Cl. 51—8.)

8. In an apparatus for cleaning metal in sheet form, a substantially closed chamber, a chambered work-locating member of tapering cross section and provided in the reduced portion thereof with a material-receiving slot, said chambered member extending inwardly with respect



to said chamber, yieldable means for normally closing said slot in the chambered member, and sand-blasting means within said chamber and adjacent the slot of the chambered member.

1,419,718. GUARD FOR SEWING-MACHINE NEEDLES. JOSEPH CHERTOK, New York, N. Y., assignor to Chertok Safety Appliance Company, a Corporation of Nevada. Filed Aug. 4, 1921. Serial No. 489,671. 2 Claims. (Cl. 112—261.)

1. A needle guard attachment for sewing machines, comprising a split sleeve adapted to be clamped to the upper exposed portion of a presser foot rod, a bracket projecting downwardly from said sleeve, a bifurcated guard member carried by the lower end of said bracket and adapted to surround the needle, and a conical terminal at the lower end of said guard and having a central opening therein through which said needle is adapted to pass, said conical terminal having a thread slot therein through which the thread is permitted to pass.

1,419,719. FAN. ROBERT CLADE, Newark, N. J. Filed Oct. 16, 1920. Serial No. 417,397. 1 Claim. (Cl. 230—33.)

A device of the character described, comprising a vane, a rib on the vane, said rib extending to an edge of the vane, there being a groove in the rib, there being alined perforations in the rib on opposite sides of the groove, said rib having alined slots on opposite sides of the groove, the length of the slots being radially disposed relatively to the perforations, a resilient member of attenuated form bent whereby its ends are in proximity, one of said ends being pivoted in the groove on an ele-

ment carried in the perforations, the other of said ends being pivoted in the groove on an element carried in the

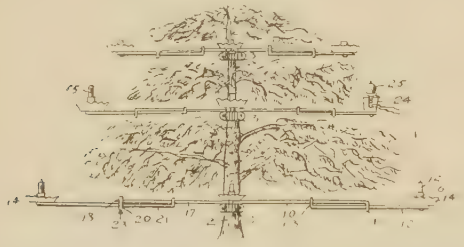
slots, whereby as the limbs of the member are moved toward or away from each other the vane will be caused to oscillate about one of the pivots.

1,419,720. METHOD OF MAKING PHENYLGLYCINE BODIES. LEE E. H. CONE, Syracuse, N. Y., assignor to Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Mar. 22, 1918. Serial No. 224,062. 12 Claims. (Cl. 23—24.)

1. In a method of making phenyl-glycine bodies, the steps which consist in dissolving a salt of chlor-acetic acid in a cold watery solution of aniline; and then adding the solution thus formed to a hot watery solution of aniline, whereby the aniline salt of phenyl-glycine is formed.

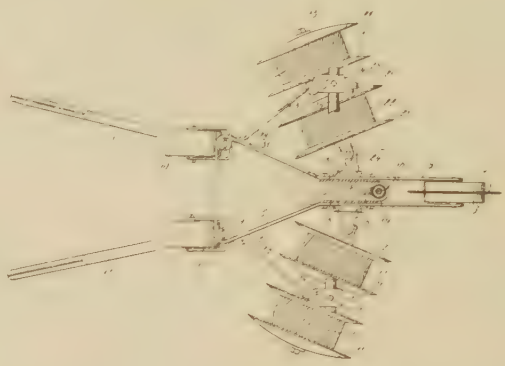
11. In a process of making phenyl-glycine bodies, the step which consists in washing the freshly precipitated phenyl-glycine salt with a cold watery aniline solution.

1,419,721. LIGHTING FIXTURE. CARL A. DIEDERICHS, Pittsburgh, Pa. Filed Apr. 30, 1919. Serial No. 293,600. 1 Claim. (Cl. 248—42.)



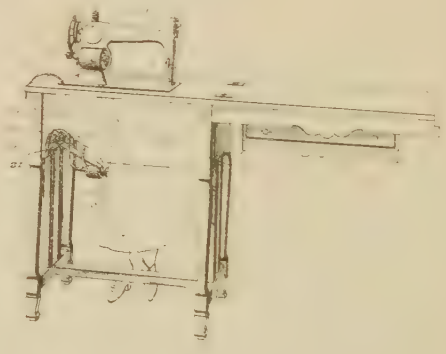
A device for the purpose set forth comprising a clamping element formed from a pair of opposed semi-circular members, connected together, a corrugated strip secured to the periphery of each of said members and providing in connection with each member a series of vertically disposed square slots, an arm having each end thereof depending at an angle, the inner angular end being of greater length and greater thickness than the outer angular end of said arm and square in cross section, said inner end adapted to engage in one of said slots of the clamp whereby the arm is supported at an angle with respect to the clamp, said outer end being apertured, and a shiftable extension having an upwardly extending slotted inner end of the same length and thickness as the outer depending end of said arm, said arm projecting through said inner end of the extension, said extension projecting through the outer end of the arm, said extension having its outer end provided with an opening, an illuminating element mounted on the outer end of the extension, and means extending throughout said opening for connecting said element to said extension.

1,419,722. CULTIVATOR. FERDINAND C. DITTMAR, Davenport, Iowa. Filed Nov. 28, 1919. Serial No. 341,157. 12 Claims. (Cl. 97—25.)



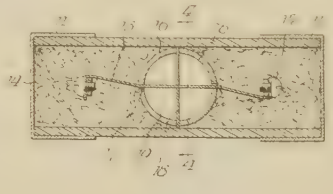
1. In a cultivator, the combination of power means, and a plurality of cultivating discs actuated by said power means and having means associated therewith adapted to limit the depth of cultivation and to drive said cultivator.

1,419,723. CONTROLLER FOR ELECTRICALLY-DRIVEN SEWING MACHINES. DWIGHT M. DURKEE, Rockford, Ill., assignor to Free Sewing Machine Company, Chicago, Ill., a Corporation of Illinois. Filed June 21, 1920. Serial No. 390,439. 2 Claims. (Cl. 172—179.)



1. In an electrically operated sewing machine and in combination with the table, head and motor thereof, a rheostat controlling the supply of current to the motor, a bracket supporting the rheostat and supported by the table, the movable element of the rheostat being arranged for horizontal movement and adapted to be engaged by the knee of the machine operator.

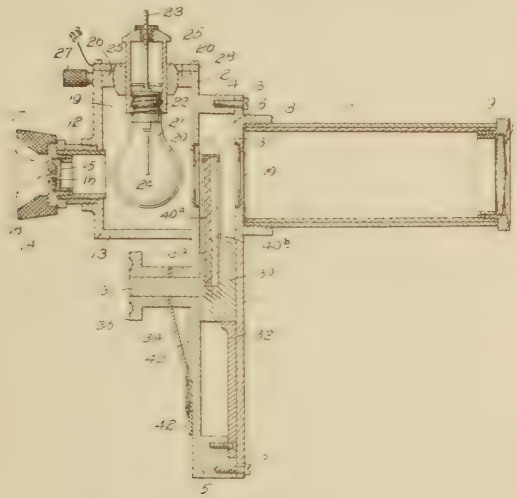
1,419,724. INCLOSED FUSE. ALFRED L. EUSTICE, Chicago, Ill. Filed Mar. 7, 1918. Serial No. 220,962. 10 Claims. (Cl. 200—119.)



7. In a fuse, the combination of a closed casing, a fusible element mounted therein and electrically connected exteriorly thereof, complementary semispherical members forming an air space around a portion of the fusible

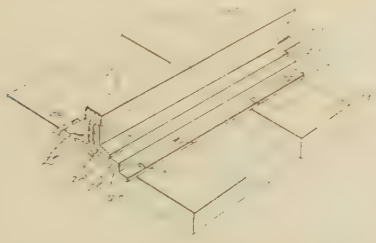
element to increase the sensitiveness of the latter, and an insulating disk separating said semispherical members to prevent establishment of electrical connections therebetween by the metal of the fusible element after the same has melted.

1,419,725. ABSORPTION WEDGE. EDWIN H. FISHER, Pittsburgh, Pa., assignor to Scientific Materials Company, a Corporation of Pennsylvania. Filed Apr. 12, 1920. Serial No. 373,136. 10 Claims. (Cl. 88—14.)



9. An optical pyrometer comprising a chamber, a shaft journalled in the wall of the chamber and provided with a hub within the same, a frame fixed in the hub, a translucent absorption wedge in the form of a segment mounted in said frame, one wall of the chamber being provided with an opening for the admission of light from the object whose temperature is to be determined, a compartment adjacent the chamber, a light of constant intensity in the compartment, the opposite walls of the compartment being provided with apertures in alignment with the light, the peripheral portion of the absorption wedge and said opening, a pointer on the shaft and a scale adjacent the pointer calibrated to indicate the temperature of said object.

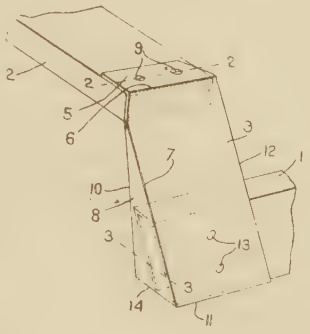
1,419,726. RAIL JOINT. EDWARD FIXTER, Wilmington, N. C., assignor of one-fourth to Marshall L. Starkey, Wilmington, N. C. Filed June 20, 1921. Serial No. 478,951. 4 Claims. (Cl. 238—190.)



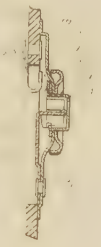
1. A rail joint having lateral splice bars and means for securing the same against transverse movement relative to the rails, said means including revoluble keys interposed between the splice bars and the rails.

1,419,727. MATTRESS FRAME. FRANCIS G. GALE, Waterville, Quebec, Canada. Filed Aug. 19, 1919. Serial No. 318,509. 2 Claims. (Cl. 5—63.)

1. In a mattress frame, the combination with a flat-sided tubular end rail, of a flat-sided tubular side rail, and a corner fastening member made of sheet metal which is bent to form three portions, each situated at right angles to the other, one portion overlying and secured to the side of the end rail, another portion closing the open end of said end rail and overlying and being secured to the side of the side rail, and the other portion closing the open end of the side rail.

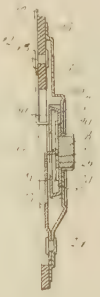


1,419,728. HANDLAMP SWITCH. GEORGE D. GALLAGHER, Washington, D. C., assignor to Winchester Repeating Arms Company, New Haven, Conn., a Corporation of Connecticut. Filed Nov. 22, 1919. Serial No. 339,795. 10 Claims. (Cl. 200—60.)



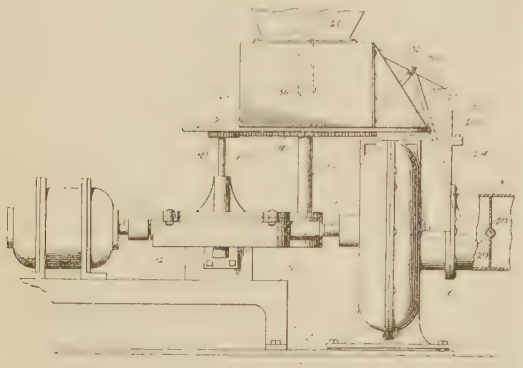
10. A contact device for battery hand lamps, comprising a flanged push button and a disc through which said push button passes and by which it may be rotated, a part of said flange being cut away to render said push button ineffective when lighting of the lamp is to be avoided

1,419,729. HANDLAMP SWITCH. GEORGE D. GALLAGHER, Washington, D. C., assignor to Winchester Repeating Arms Company, New Haven, Conn., a Corporation of Connecticut. Filed Jan. 8, 1920. Serial No. 350,145. 6 Claims. (Cl. 200—60.)



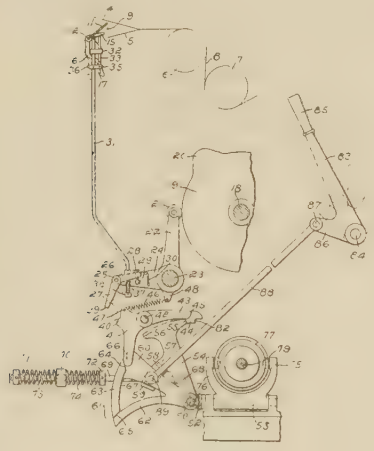
1. Contact means for a battery hand lamp, comprising a push button and an opposed contact for flashing the lamp, and means engaged by said push button and rotatable therewith and into continuing engagement with said opposed contact when permanent lighting of the lamp is desired.

1,419,730. PULVERIZED-FUEL FEEDER AND MIXER. HOWARD I. GENTINE, Shelbyville, Ill., assignor to American Atomized Fuel Company, Shelbyville, Ill., a Corporation of South Dakota. Filed Dec. 10, 1920. Serial No. 429,832. 4 Claims. (Cl. 302—37.)



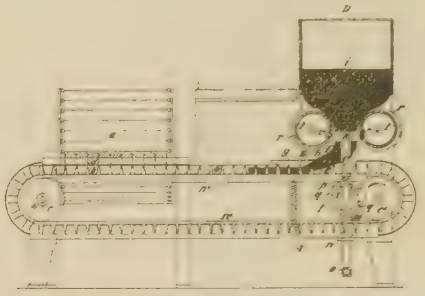
1. A mechanism of the character described comprising a fan casing having an inlet and an outlet, a hopper supported at one side of the fan casing adapted to contain fuel to be fed to the latter, a vertically movable valve for controlling the amount of fuel to be fed from the casing, a rotatable turn table mounted below the hopper, a discharge chute arranged forwardly of the turn table and communicating with the fan inlet, and a forwardly extending wall projecting from the hopper and overlying the turn table and adapted to prevent the fuel from moving with the latter.

1,419,731. STOPPING MECHANISM FOR TEXTILE MACHINERY. EDGAR F. HATHAWAY, Dorchester, Mass., assignor to Mohawk Carpet Mills, Inc., Amsterdam, N. Y., a Corporation of New York. Filed Mar. 5, 1921. Serial No. 449,889. 21 Claims. (Cl. 157—1.)



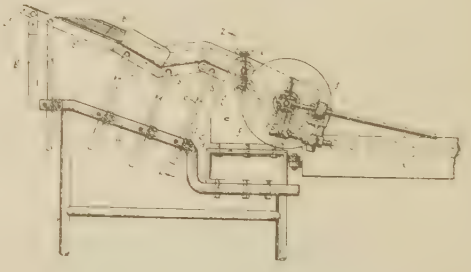
1. Textile mechanism comprising in combination, a clutch having three positions, namely, a high speed position, a low speed position and a neutral position, driving members adapted to be actuated by said clutch when in its high speed position or low speed position respectively, so as to drive the mechanism at said respective speeds, means to supply yarn or thread, a detector for said yarn or thread, and means caused to function by said detector through predetermined defective condition of the yarn or thread, thereby to move the clutch into said neutral position.

1,419,732. COLLECTING APPARATUS FOR AUTOMATIC MATCHMAKING MACHINES. LUDWIG HENNINGER, Durlach, Germany, assignor to Badische Maschinenfabrik & Eisengiesserei vorm. G. Sebold und Sebold & Neff, Durlach, Baden, Germany. Filed May 9, 1916. Serial No. 96,440½. 8 Claims. (Cl. 144—62.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



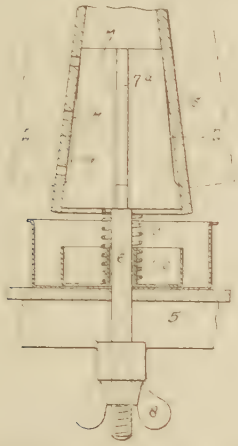
1. In an automatic match making apparatus, in combination: a collecting box; supporting means for the matches intended to be collected in said box; a conveying chain for carrying the matches from said supporting means to the collecting box; match receptacles forming parts of said chain, the breadth of each receptacle being smaller than the length of a match so as to let the ends of the latter project at both sides of such receptacle; lifting ledges located below the said collecting box and being so shaped and arranged as to be adapted to take below the projecting match ends and to lift and guide the matches in the direction toward the inlet opening of the collecting box; and means for continuously moving the said conveying chain.

1,419,733. SHEET-FEEDING MECHANISM. REUBEN HITCHCOCK, Cleveland, Ohio, assignor to The Cleveland Folding Machine Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 3, 1920. Serial No. 393,872. 18 Claims. (Cl. 271—39.)



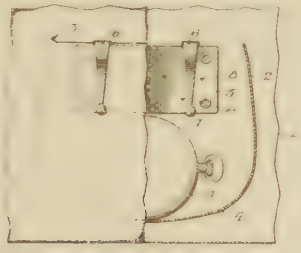
1. In a sheet-feeding mechanism, the combination with feeding rolls, of a sheet-supporting table positioned above said rolls; the same comprising independently adjustable sections exclusive of any separator member, and means for supporting said sections in various angular relations with respect to each other and to the rolls, substantially as set forth.

1,419,734. MOISTENING MEANS FOR COP MOUNTINGS. WILLIAM A. HOUCK, Reading, Pa. Filed Apr. 16, 1921. Serial No. 461,759. 4 Claims. (Cl. 28—58.)



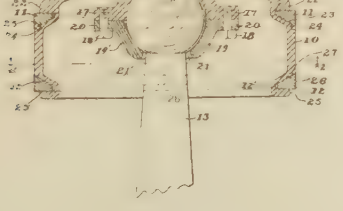
1. In combination with a base plate, a winged cop support mounted thereon, and a liquid container located between said support and the base plate.

1,419,735. CLOSURE FOR GARMENT POCKETS. ALBERT B. JARDIN, Philadelphia, Pa. Filed Nov. 19, 1919. Serial No. 339,233. 2 Claims. (Cl. 2—153.)



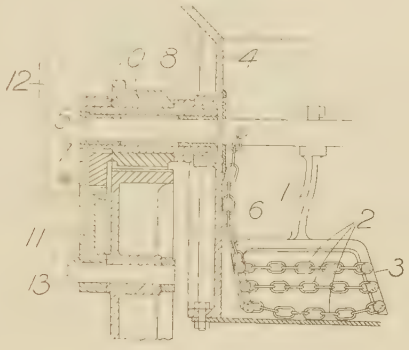
2. An article of manufacture, comprising a plate provided with a spur upon one face, and a resilient clip extension carried by said plate provided upon one face with a spur and tending to yieldingly press its spurred face against the spurred face of said plate, in combination with a section of resilient material having one portion secured to the opposite face of said plate, and comprising a second portion normally yieldingly extending in spaced relation away from said first portion and said plate.

1,419,736. PISTON AND CONNECTING ROD. HARRY B. JOHNSTON, Seattle, Wash. Filed June 22, 1920. Serial No. 390,979. 5 Claims. (Cl. 74—108.)



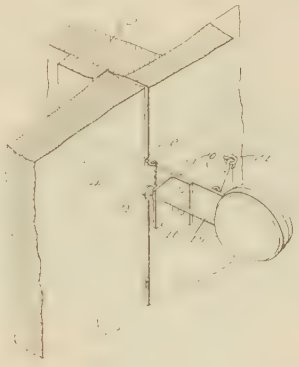
1. A piston having a piston ring groove and a wrist connection bearing, the groove having an inclined wall, the center of the connection bearing being substantially in the same axially perpendicular plane as the groove.

1,419,737. MACHINE FOR MIXING CONCRETE INGREDIENTS OR OTHER SUBSTANCES. FREDERICK W. KIDDIE, Leamington, England, assignor to Winget Limited, London, England. Filed May 27, 1919. Serial No. 300,140. 7 Claims. (Cl. 259—109.)



1. For use in machines for mixing concrete ingredients or other substances, beaters mounted upon a shaft, each beater consisting of a single shank carrying a fork, and having chain form connecting means between the prongs of same, the said shanks being inclined out of the radial lines, in order that the forks and chain form connecting means work the concrete endwise of the trough and more perfectly mix the concrete.

1,419,738. BURGLAR ALARM AND LOCK. EUGENE C. KLOMFASS, Chicago, Ill. Filed June 20, 1921. Serial No. 478,947. 1 Claim. (Cl. 116—86.)

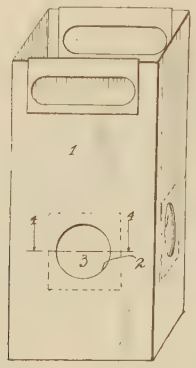


A device for the purpose described having a base plate consisting of hingedly connecting attaching and swinging members of which the former is adapted to be secured to the inner surface of a door casing, a stop rod carried by the swinging member for terminal arrangement in the path of a door when the swinging member is disposed in perpendicular relation with the plane of the door, and means for securing the swinging member in its operative position, and consisting of a hook mounted upon the door casing for detachable engagement with the swinging member and arranged in bracing relation therewith.

1,419,739. MARKETING BAG. WILLIAM H. KNIEP, St. Louis, Mo., assignor to Graham Paper Company, St. Louis, Mo., a Corporation of Missouri. Filed June 17, 1920. Serial No. 389,779. 1 Claim. (Cl. 229—53.)

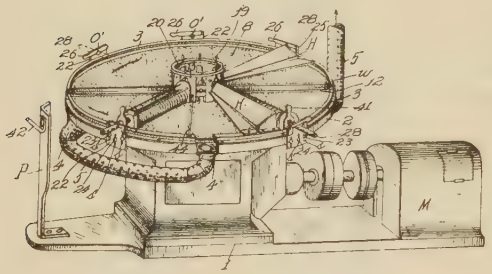
An open topped bag adapted for marketing and formed of material capable of being rolled and folded comprising a body including opposite side portions provided with means to facilitate gripping the bag, each side portion

having an inspection aperture therein and said apertures being in alignment to permit the observer to see entirely



through the bag, and flexible transparent sheets covering said opening for preventing articles within the bag from falling out.

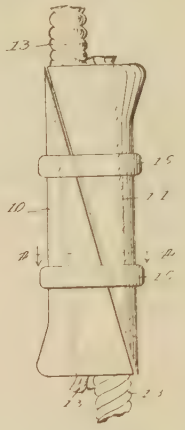
1,419,740. GRINDING MACHINE. JOHN B. KRONABLE, St. Louis, Mo., assignor to McQuay-Norris Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Sept. 3, 1920. Serial No. 407,860. 16 Claims. (Cl. 138—8.)



1. In combination with a rotating grinding disk, a fixed support mounted adjacent the grinding surface of the disk, a ring-supporting pipe mounted loosely on said support and movable freely to and from the disk, said pipe freely traversing the rings and holding the same against the grinding surface of the disk, whereby rotation is imparted to the rings by the disk and the peripheral speed thereof retarded by the pipe to cause a rubbing between the contacting surfaces of the rings and disk.

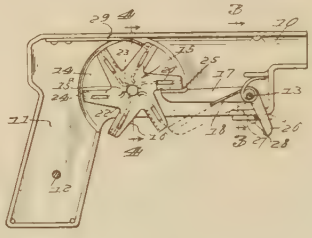
1,419,741. CABLE CLAMP. WILLIAM ALLEN LEE, Cargile, Ark. Filed Feb. 26, 1920. Serial No. 361,448. 1 Claim. (Cl. 24—126.)

A clamp for the purpose indicated consisting of independent complemental oppositely tapered members separated on a diagonal line and adapted when in operative relations to mutually form a longitudinal transversely elliptical seat for the reception jointly of the overlapping extremities of two cables, the members being corrugated in the seat to increase the frictional engagement of the cable surfaces therewith and each member having an



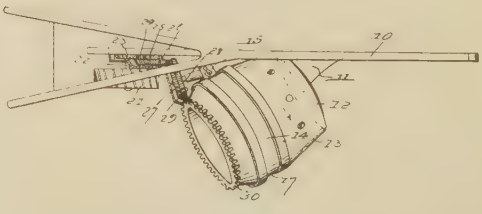
integral guide loop located near its larger end and extended to receive the smaller end of the complemental member.

1,419,742. CAP PISTOL. ALVAH F. LENT, Newark, N. J. Filed Mar. 3, 1922. Serial No. 540,868. 4 Claims. (Cl. 42—54.)



3. A toy pistol for the explosion of paper caps and the like having a casing including a handle or grip, a revoluble magazine having radially disposed arms for successive projection within reach of a finger of the hand grasping the grip to successively serve as triggers for imparting movement to the magazine, the arms of the magazine being provided with cap seats, and a spring impelled hammer having its free end arranged in the path of movement of the several arms of the magazine for successive lifting and release thereby and for contact when released with the cap seat of the succeeding arm, said magazine consisting of transversely spaced radially armed spiders and interposed plates spanning the intervals between and secured to said arms and forming the cap seats.

1,419,743. PLOW. ANDREW LOHBERGER, Toledo, Ohio. Filed June 7, 1920. Serial No. 387,063. 3 Claims. (Cl. 55—57.)



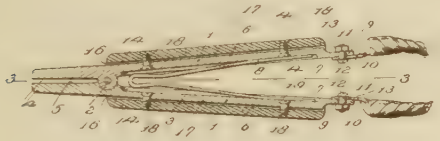
1. The combination with a plow of a revoluble mold board consisting of a drum axially disposed in oblique

relation to the path of movement of the plow, means for communicating rotary motion to the drum and a cylindrical fingered cage projecting from and parallel with the drum.

2. The combination with a plow, of a revoluble moldboard consisting of a drum of substantially cylindrical form and having an exterior annular seat, a bearing ring in surrounding relation to the drum and engaged in said annular seat and provided with an ear by which it is secured to the plow frame, and means for communicating rotation to the drum as a result of advance movement of the plow.

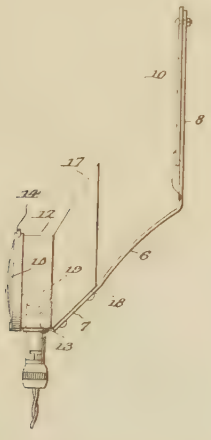
3. The combination with a plow of a revoluble moldboard consisting of a hollow drum, means for communicating rotary movement to the same, soil pulverizing projections secured to the inner periphery of the drum, and a band removably secured to the inner periphery of the drum at the end remote from said projections and formed with fingers projecting from and parallel with the drum for the purpose specified.

1,419,744. WELDING TOOL. ROYAL MATTICE, Philadelphia, Pa. Filed Mar. 24, 1922. Serial No. 546,419. 16 Claims. (Cl. 219—14.)



1. A welding tool of the class described comprising a pair of tongs having handle portions and clamping jaws, said jaws being adapted to grip an electrode, heat and electrical insulating handle grips, said grips being attached to the handle portions of the tongs from the inside thereof, and means for detachably connecting an electric conductor to said tongs.

1,419,745. TAIL-LIGHT AND LICENSE-PLATE HOLDER. WILLIAM P. MENDENHALL, East Orange, N. J. Filed Jan. 24, 1920, Serial No. 353,891. Renewed Sept. 22, 1921. Serial No. 502,493. 2 Claims. (Cl. 40—131.)

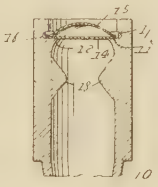


1. In means for supporting a license plate in a perpendicular position and illuminating the same, a bracket comprising arms for supporting a standard license plate in a vertical position and for supporting a lamp and a lamp housing below said plate and a considerable distance in rear of said plate, and a lamp housing supported by said bracket and comprising a lamp chamber and a frustoconical mouth for directing the illumination against said plate, the open end of said mouth being substantially vertical, and terminating in substantially the horizontal plane of the lower edge of the license numerals, and the sides of said mouth being arranged at an angle to direct the light against and beyond the edges of the license plate, and the top of said mouth being arranged at an angle to direct the light against the plate only.

1,419,746. ACETYLENE TANK. FLOYD J. METZGER, New York, N. Y., assignor to Air Reduction Company, Inc., a Corporation of New York. Filed Nov. 19, 1920. Serial No. 425,089. 4 Claims. (Cl. 23—29.)

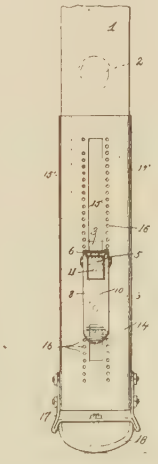
4. A tank adapted for the storage of acetylene gas and containing chips of a light porous wood and a solvent for acetylene gas.

1,419,747. BOTTLE. ALBIN MILLER, Prince George, British Columbia, Canada. Filed Feb. 10, 1921. Serial No. 444,056. 5 Claims. (Cl. 228—63.)



1. A bottle or like receptacle having its neck provided adjacent to its lip edge with a transverse inwardly projecting seat or ledge and a superjacent annular groove or channel in combination with a metallic sealing disk of concavo-convex construction provided with a reverse peripheral edge for engagement with said groove or channel, the central portion of said disk being depressible to circumferentially expand the disk.

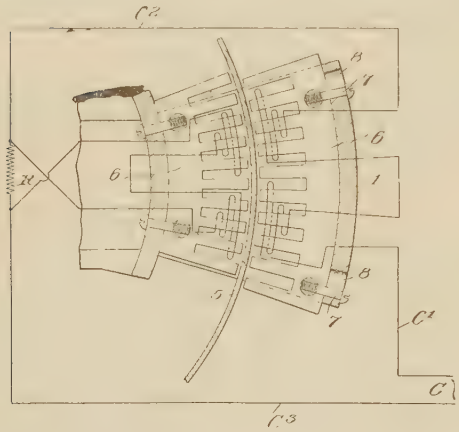
1,419,748. EXTENSION FOOT FOR LADDERS. LUDVIC M. MILLER, Winneconne, Wis. Filed Mar. 26, 1921. Serial No. 455,788. 5 Claims. (Cl. 132—20.)



1. In combination with the stile of a ladder, of a sheet metal extension plate having a longitudinal slot and two sets of alined perforations which are located on opposite sides of the slot, a lever catch maintaining bolt attached to the stile and provided with a portion adapted to be positioned between the side walls of the slot and also with

a portion which overlies the extension plate between the edges of the slot and the two sets of alined perforations, a lever catch pivoted to the bolt, said catch having side portions each with detents of greater length than the thickness of the extension plate which detents are positioned to enter the two sets of alined perforations.

1,419,749. ALTERNATING-CURRENT MOTOR. THOMAS J. MURPHY, Rochester, N. Y., assignor of one-half to James P. B. Duffy, Rochester, N. Y. Filed June 21, 1917. Serial No. 176,221. 2 Claims. (Cl. 172—278.)

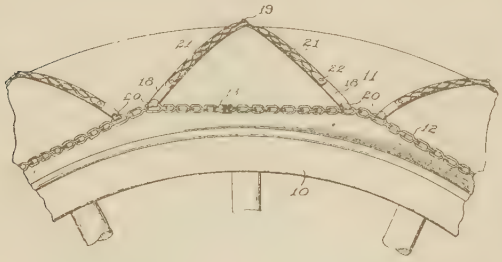


1. An induction motor comprising an annular rotor, field magnets disposed on opposite sides thereof having cores of metals characterized by different hysteresis losses for producing a shifting field, and adjustable means for varying the relative positions of said magnets and thereby controlling the speed of rotation of said rotor.

1,419,750. COMPOSITION FOR RENDERING PAPER TRANSPARENT AND METHOD OF MAKING SAME. SAMUEL H. PARRISH, Chicago, Ill., assignor of one-half to Leslie C. Orrell, Chicago, Ill. Filed June 6, 1919. Serial No. 302,219. 8 Claims. (Cl. 134—14.)

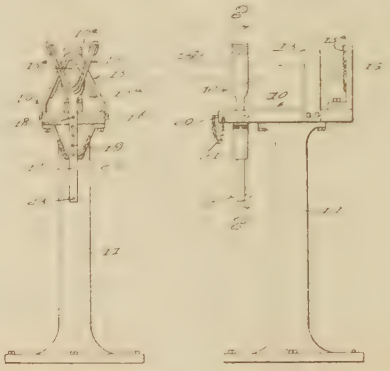
3. A liquid for rendering paper transparent comprising fir balsam, rosin, turpentine and carbon tetrachloride.

1,419,751. NONSKID CHAIN. CLYDE I. PEAK, Barada, Nebr. Filed Aug. 24, 1921. Serial No. 494,875. 6 Claims. (Cl. 215—31.)



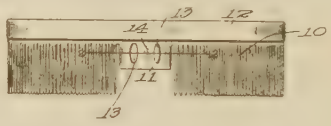
1. A device of the character described including side members, and pairs of crossed pivotally connected straps detachably engaged with said members and adjustable therealong whereby the angularity of the straps of each pair may be varied.

1,419,752. INNER-TUBE-STRIPPING POST. WILBUR H. PERRINE, Trenton, N. J. Filed Feb. 14, 1922. Serial No. 536,447. 6 Claims. (Cl. 172—278.)



1. An apparatus for holding core bars during the stripping of tubes therefrom, having spaced oppositely facing substantially V-shaped jaws forming seats for the bar.

1,419,753. COMB. EARL R. PERSON, Leominster, Mass., assignor to The Viscoloid Company, Leominster, Mass., a Corporation of Massachusetts. Filed Apr. 27, 1921. Serial No. 464,924. 4 Claims. (Cl. 18—2.)

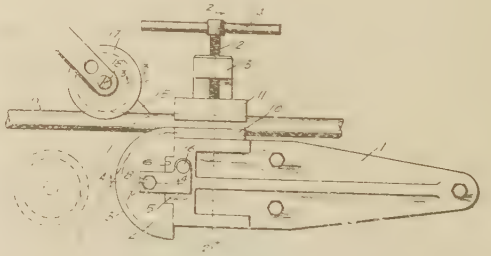


1. As an article of manufacture, a curved comb adapted to be worn in the hair and having two sets of teeth spaced apart and means thereon in said space for the attachment of a bow of ribbon.

1,419,754. PROCESS FOR CARROTING HAIRS. CHARLES PICHARD, Paris, France, assignor to La Societe Pichard Freres, Paris, France. Filed May 3, 1921. Serial No. 466,512. 13 Claims. (Cl. 153—46.)

1. The process for carroting hairs intended to be used in the manufacture of felt which comprises causing liquid which will expand upon freezing to penetrate the cells and medullary ducts of the hair and freezing said liquid.

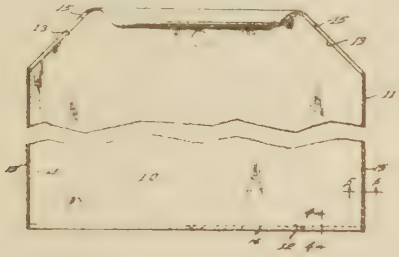
1,419,755. BENDING DEVICE FOR PIPES AND BARS. FRED B. POTTER, Los Angeles, Calif. Filed Mar. 2, 1921. Serial No. 449,162. 2 Claims. (Cl. 53—6.)



1. A bending device comprising a base, a tongue formed on one end of the base, a lip provided on the base adjacent the tongue, an end member having a recess formed therein adapted to receive said tongue, a fastening member extending through said lip and end member, a roller

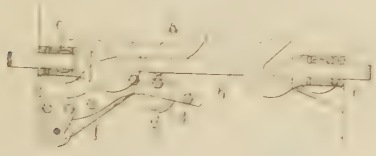
sustained eccentrically on said base for swinging movement, there being restricted grooves formed in said end member and roller, and means for clamping a pipe to said base.

1,419,756. BAKING PAN. CHARLES V. PUTNAM and RAY F. TRIMMER, East Cleveland, Ohio. Filed July 23, 1921. Serial No. 486,993. 5 Claims. (Cl. 51—129.)



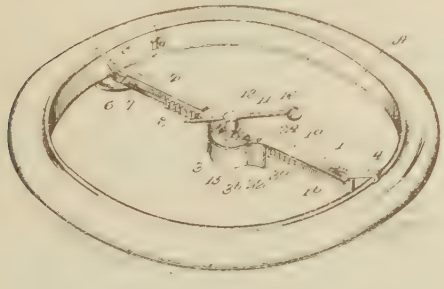
1. A baking pan having a body portion lying in a single plane and having the marginal edges thereof turned upwardly and inwardly, and having one end of the body portion rolled upwardly and inwardly to form a handle.

1,419,757. COUPLING FOR RAILWAY AND OTHER VEHICLES. FRANK RICHARD RAND, London, and THOMAS HENRY SANDERS, Sheffield, England. Filed Dec. 23, 1920. Serial No. 432,803. 4 Claims. (Cl. 213—45.)



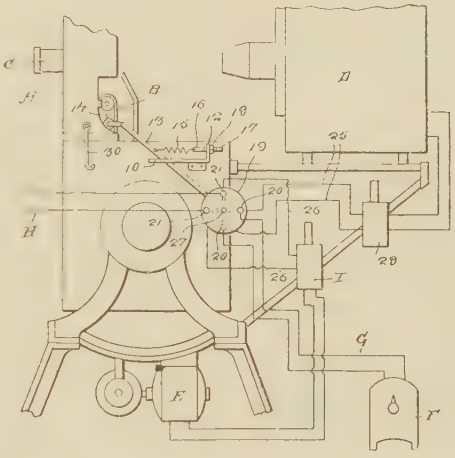
1. An automatic coupling for railway and other vehicles comprising in combination a coupling hook upon one vehicle adapted to engage a link upon a second vehicle, and manually operated means for effecting uncoupling and adapted to automatically return to the normal operative position by the uncoupling operation, substantially as described.

1,419,758. TOOL FOR DEMOUNTABLE RIMS AND THE LIKE. JOHN REICHERT, Racine, Wis. Filed Apr. 13, 1920. Serial No. 373,488. 4 Claims. (Cl. 301—63.)



1. A rim breaker and expander, consisting essentially of a pair of straight elongated members at their outer ends formed to abut the rim and provided with projecting hooks rigid with their respective members to rest on and catch over the rim, said members fitting one within the other and being held laterally together for relative longitudinal sliding movement on each other in opposite directions and against relative lateral movement, means whereby said members can be temporarily locked against relative longitudinal sliding movement to hold the rim expanded and contracted, and manually operated means establishing operative connection between said members for causing said relative longitudinal movement of the members to expand and contract the rim.

1,419,759. AUTOMATIC STOP FOR MOTION-PICTURE MACHINES. DANIEL SANFORD REID, Siluria, Ala., assignor of one-half to William F. Strowd, Siluria, Ala. Filed May 17, 1921. Serial No. 470,384. 2 Claims. (Cl. 88—17.)



1. In combination wih the electric illuminating device and the operating motor of the reeling mechanism of a motion picture machine; an automatic stop device comprising a guide bracket secured upon the machine, a lever movable through the guide bracket and carrying a roller normally engaging against the strip of film passing through the reeling mechanism, spring tension applied to said lever, the tension of the film being greater than the tension of the spring whereby to hold the lever in normal position, and a switch mechanism operatively connected with the other end of said lever and adapted to be operated by movement of the latter, said switch mechanism including a set of contacts connected with a source of current and with the illuminating device, a second set of contacts connected with a separate source of current and connected with the motor for actuating the film winding mechanism, and third and fourth sets of contacts movably mounted and simultaneously engageable with the first and second named contacts respectively.

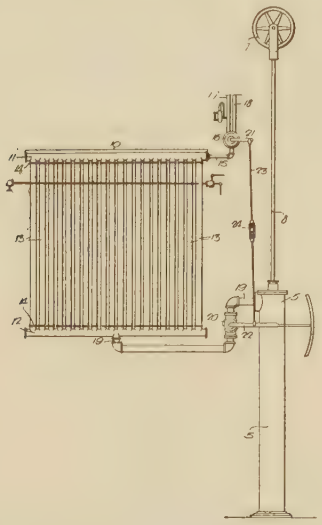
1,419,760. PROCESS OR METHOD OF REFINING OILS. MERCER REYNOLDS, Chattanooga, Tenn. Filed Mar. 4, 1920. Serial No. 363,222. 3 Claims. (Cl. 87—12.)

1. The process of bringing off color oils up to a desired color standard by repeating the alternate steps of refining and bleaching said refining step including saponification.

1,419,761. STEAM HYDRAULIC ELEVATOR. WILLIAM H. RIDGWAY and ELLIS B. RIDGWAY, Coatesville, Pa. Filed May 14, 1921. Serial No. 469,641. 4 Claims. (Cl. 139—54.)

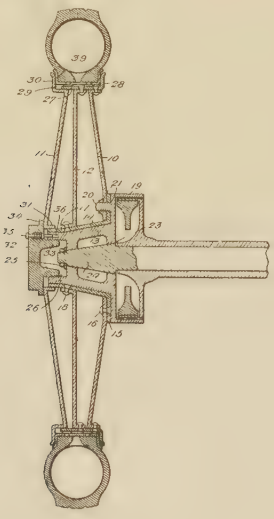
1. The combination with an elevator shaft of a gas-

hydraulic elevator system comprising gas supply and water connection manifolds with interconnecting pipes



mounted flat along one side of the shaft and serving as pressure tank for the elevator system.

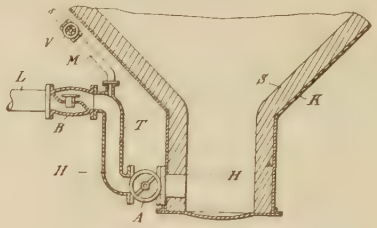
1,419,762. WHEEL. SIDNEY E. ROBERTSON, Medon, Tenn. Filed May 31, 1921. Serial No. 474,043. 2 Claims. (Cl. 301—63.)



1. A vehicle wheel embodying an inner disk, an outer disk, an intermediate disk located between the inner and outer disks, a hub secured to and centrally connecting the inner and intermediate disks, a transversely L-shaped annulus secured to and surrounding the outer edges of the last mentioned disks, said annulus forming the bottom and one side edge of a rim receiving channel, a flange surrounding the outer edge of the outer disk and providing the opposite side edge of said channel and means for removably securing the outer disk in position.

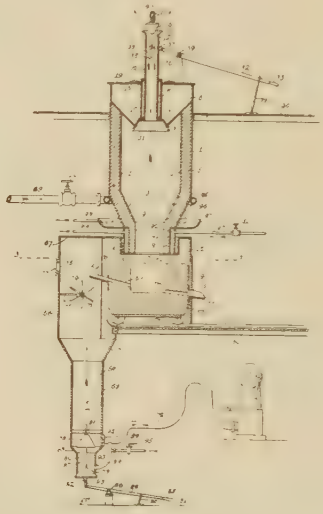
1,419,763. PRESSURE LOCK FOR DIGESTERS. JOHANNES KARL RUTHS, Djursholm, Sweden, assignor to Aktiebolaget Vaporackumulator, Stockholm, Sweden, a Corporation. Filed Dec. 4, 1919. Serial No. 342,474. 5 Claims. (Cl. 92—7.)

1. In digesters, the combination with the steam boiler, a steam conduit, a cut-off valve and another valve, of a pressure lock consisting of a pipe opening into the said steam conduit between the said cut-off valve and the said



other valve, the said pipe communicating with a pressure medium of higher pressure than the maximum pressure of the digester.

1,419,764. METHOD OF AND APPARATUS FOR SMELTING ORES. VICENTE PAZOS Y SACIO, Newark, N. J. Filed Apr. 26, 1919. Serial No. 292,867. 20 Claims. (Cl. 75—17.)



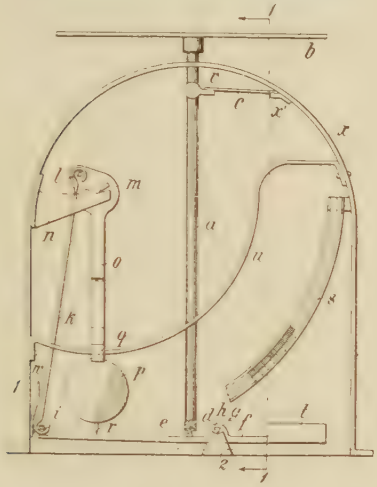
1. A furnace for smelting ores comprising a chamber for receiving the charge of ore, a crucible at the bottom thereof and spaced therefrom, an enlarged chamber extending around the bottom portion of the first-named receptacle, another chamber communicating with and extending below the crucible, a slag outlet from the crucible to said chamber, means carried in the chamber below said slag outlet to granulate the slag as it drops therefrom and a blower having an inlet at the lower portion of said chamber whereby the temperature of the ascending air in said chamber is raised by the heat taken from the descending slag.

1,419,765. COLLAPSIBLE BED. LOUIS F. SCHILLING, Salem, Ohio. Filed Apr. 19, 1918. Serial No. 229,591. 9 Claims. (Cl. 5—5.)

1. A collapsible bed having a side bar provided with a pivotally mounted supporting leg, said side bar and leg having conforming channelled cross sections whereby the leg may be folded under the side bar and in nested rela-

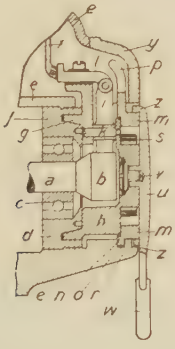
tion thereto, and a brace connecting the side bar and leg and consisting of two parts pivoted to one another and to the side bar and leg respectively, said brace parts having channelled cross sections conforming to the cross sections of the side bar and leg and, when folded, being nested one in the other and being disposed between said side bar and leg in nested relation thereto.

1,419,766. WEIGHING SCALE. OTTO SCHMIDT, Tegel, near Berlin, Germany. Filed Aug. 17, 1921. Serial No. 493,083. 3 Claims. (Cl. 265—61.)



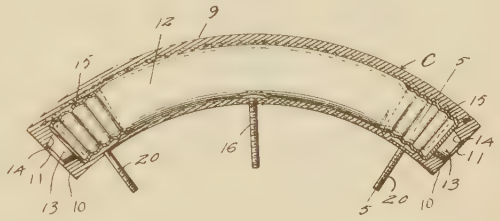
1. In a weighing scale, a horizontally pivoted lever, a pivoted weight arm, means connecting the latter with one end of said lever, a vertical scale pan rod resting on the lever between the fulcrum and the connected end of the lever, a fixed guide for the rod, and an arcuate guide for the weight arm.

1,419,767. MAGNETO-ELECTRIC IGNITION MACHINE FOR INTERNAL-COMBUSTION ENGINES. JACQUES SCHNEIDER, Solothurn, ERNST HURLIMANN, Zuchwil, and FREDERIC BILLON, Solothurn, Switzerland, assignors to the Firm "Scintilla," Solothurn, Switzerland. Filed Aug. 22, 1919. Serial No. 319,230. 3 Claims. (Cl. 200—19.)



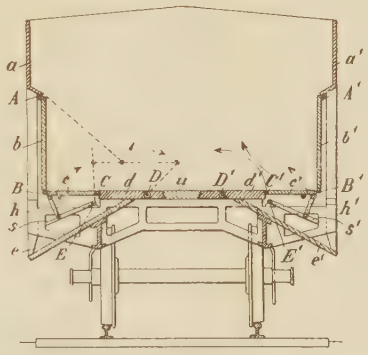
2. A magneto electric ignition machine including an adjustable interrupting mechanism on a rockable supporting piece which surrounds an actuating cam as completely as possible on all sides, a fixing ring carrying a cover rotatably mounted on said supporting piece, a spiral spring co-acting with said fixing ring and said rockable supporting piece, tending to rotate said fixing ring and said rockable supporting piece in opposite directions, an abutment on a part of the main casing of the magneto limiting the movement of the said fixing ring and cover, and means including a bayonet device permitting the removal of the said rockable carrying piece together with the fixing ring and the attached cover from the machine casing when the fixing ring is rotated against the action of the said spiral spring to a position away from contact with the said abutment.

1,419,768. SECTIONAL PNEUMATIC TIRE. WILLIAM H. SCHROEDER, East Orange, N. J. Filed Sept. 28, 1921. Serial No. 503,742. 5 Claims. (Cl. 152—22.)



1. A wheel tire made in separable sections for independent removal and replacement, said sections having contacting end walls, and inner tubes insertable to the sections through said end walls.

1,419,769. TRANSFORMABLE VEHICLE. RICHARD SCHERL, deceased, by Anna Marie Scherl, née Sendler, widow, Potsdam, Germany, heiress of one-fourth, and Volkhard Scherl, son, Potsdam, Germany, heir of three-fourths. Filed Aug. 30, 1921. Serial No. 497,036. 6 Claims. (Cl. 105—243.)

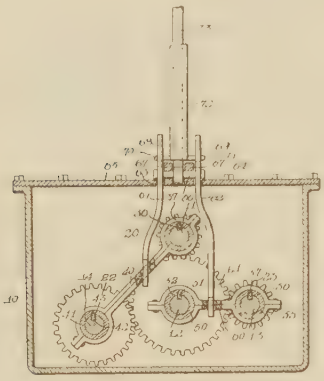


1. A transformable flat bottom and hopper bottom vehicle body having a subdivided flat bottom capable of being swung to form a bottom having sloping sides, in combination with hinged sides capable of swinging inward and whose lower edges rest on the apex of said sloping sides.

1,419,770. CHANGE-SPEED GEARING. GEORGE Q. SEAMAN, Jr., Brooklyn, N. Y. Filed Oct. 27, 1920. Serial No. 419,953. 4 Claims. (Cl. 74—59.)

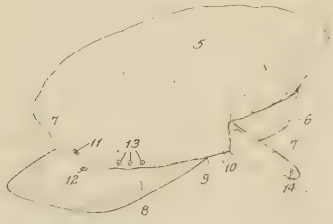
1. A change speed gearing, comprising a power shaft, a driven shaft, two countershafts, two sets of gear wheels on the said shafts, and two sets of clutches, of

which one set is adapted to connect the power shaft with the driven shaft to drive the driven shaft from the power shaft at either high speed or reverse, and the other set of clutches is adapted to connect the power



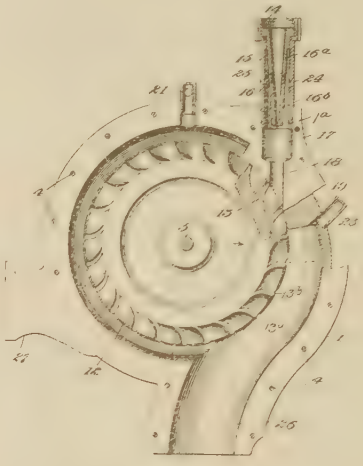
shaft with the driven shaft to drive the driven shaft at either first or second speed, the clutches in the sets being so arranged that the clutches of a set are slidable as a unit.

1,419,771. ADJUSTABLE CAP. CHARLES SOLOMON, New York, N. Y., assignor of one-third to Frank Solomon and one-third to Sol. Davidovitz, both of New York, N. Y. Filed May 28, 1921. Serial No. 473,422. 1 Claim. (Cl. 2—106.)



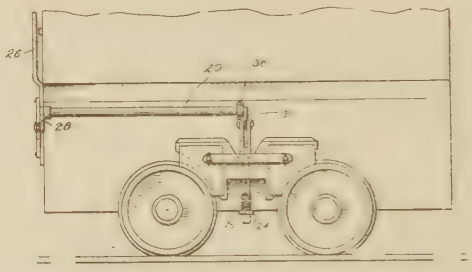
An adjustable cap, comprising a crown having its marginal edge drawn together to approach the size of the head, a visor secured to the front portion of said marginal edge of the crown, a finishing band stitched around the back portion and over the outer side of said marginal edge to reinforce and stiffen the same, the stitches of said band terminating at the opposite sides of the cap in spaced relation from the visor to provide free ends on the band and relatively flexible marginal edge portions at opposite sides of the visor, the lower edges of said marginal edge portions being substantially flush with the lower edge of the band, and means for independently and adjustably securing the free ends of the band over the front portion of said marginal edge of the crown, said free ends being adapted to be independently drawn taut for gathering together said flexible edge portions of the crown and for maintaining the back portion of the marginal edge of the crown in a relatively taut and stiffened position.

1,419,772. FLUID MOTOR. CLARENCE SECHRIST, York, Pa. Filed Sept. 16, 1920. Serial No. 410,690. 5 Claims. (Cl. 253—136.)



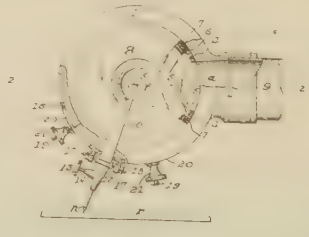
1. In a fluid motor, a rotor, and a plurality of buckets on said rotor, said buckets having a V shape in horizontal cross-section, and the front surface of each bucket making an angle to the rear surface of each bucket.

1,419,773. MINE-CAR BRAKE. STANLEY J. SPROCK and ROBERT DUNN, Clarksville, Pa. Filed Mar. 30, 1921. Serial No. 456,988. 7 Claims. (Cl. 188—250.)



5. A brake carrier having a central abutment, a brake shoe housing on each side of the abutment, said housings being fully open at the front, a pin projecting from the rear wall of each housing, a brake shoe to snugly fit within the housing and engage said pin, a single bar to engage both pins and overlie the brake shoes, and means to secure the bar against separation from the pins.

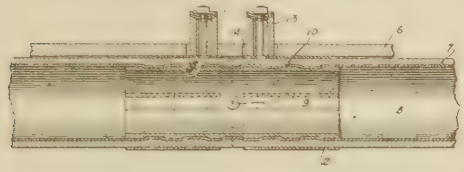
1,419,774. SOUND BOX. FRANK STEVENS, Philadelphia, Pa., assignor to Charles R. Keegan, Philadelphia, Pa. Filed Apr. 28, 1920. Serial No. 377,406. 7 Claims. (Cl. 274—35.)



3. In a sound box, in combination, a tapered vacant chamber, resilient plane walls thereto, so positioned as

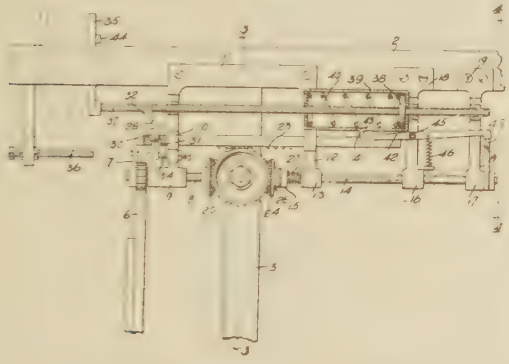
to form the taper thereof, a stylus, and a stylus arm so forked as to transmit sound impulses from said stylus to each wall independently.

1,419,775. BUMPER. JOHN J. STOCK, Philadelphia, Pa. Filed Aug. 3, 1921. Serial No. 489,526. 6 Claims. (Cl. 46—27.)



1. A bumper for vehicles including a casing presenting a pair of end portions, a sleeve adapted to be inserted into said end portions, and collars encircling said casing.

1,419,776. SHUTTLE-THROWING MECHANISM. CARL H. STRALUCKE, New York, N. Y. Filed May 12, 1921. Serial No. 468,910. 3 Claims. (Cl. 139—48.)

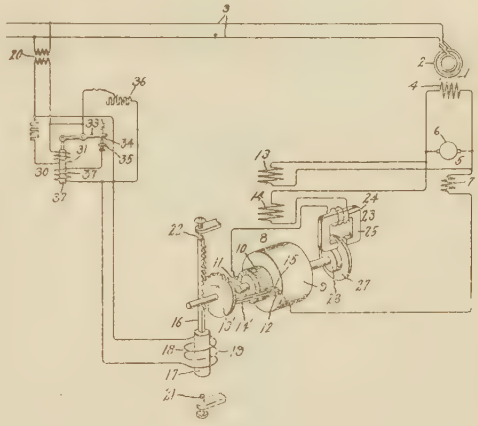


1. In an attachment for a shuttle throwing mechanism for lays, a picker, a rod connected to said picker, a spring acting on said rod for moving the rod and picker in one direction, a rack, a stop carried by said rod, a trigger carried by said rack and adapted to engage said stop when the rack is moved in one direction for moving the rod and picker against the action of said spring, a catch for holding said spring compressed, means for actuating said rack, and means for disengaging said catch when the time has arrived for the picker to throw the shuttle whereupon said spring will quickly move said rod and picker arm for properly throwing the shuttle.

1,419,777. VEHICLE SIGNALING DEVICE. JOHAN F. STROMBOM, Chicago, Ill. Filed Jan. 21, 1921. Serial No. 438,896. 13 Claims. (Cl. 116—52.)

1. In a vehicle signaling device, the combination of a single indicating device fulcrumed to be moved in opposite directions to three different indicating positions, and actuating means therefor including a single controlling lever fulcrumed to move in three different directions to three different operative positions.

1,419,778. AUTOMATIC REGULATING SYSTEM. LOUIS W. THOMPSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 3, 1920. Serial No. 400,934. 9 Claims. (Cl. 171—225.)



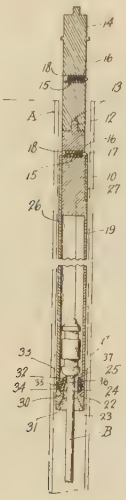
1. In combination, a circuit to be regulated, a source of supply therefor, a motor arranged to regulate said circuit by its counter-electromotive force, and means adapted to move one brush of said motor relatively to another brush of said motor in accordance with an electrical condition of the circuit to be regulated to vary the regulating effect of said motor.

1,419,779. CALENDAR. JOSIAH C. THORNE, San Juan, Calif. Filed Sept. 27, 1921. Serial No. 503,591. 1 Claim. (Cl. 40—113.)

A calendar of the character described comprising a main section, a disk rotatably mounted thereon and inscribed with circular and radial lines defining columns within which are inscribed the numbers of the days of the month, said numbers being arranged in separate groups depending upon the various numbers of days in the month, an intermediate section pivotally mounted upon the lower edge of the main section and terminating short of the upper end of the main section and provided with a cut out portion through which the numbers of any selected group on the disk may be visible, a front section pivotally mounted upon the lower edge of the intermediate section and provided with cut out portions, and disks rotatable upon eyelets extending through said front section, one of said last named disks having its

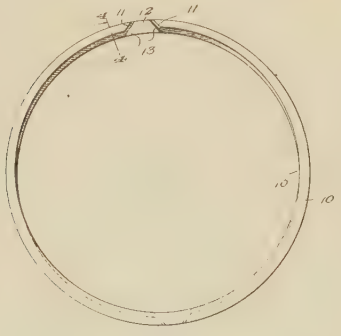
peripheral portion inscribed with the numbers of years visible through one of said last named openings and the other of said last named disks having its peripheral portion inscribed with the names of the months visible through the other of said last named openings.

1,419,780. ROD SOCKET. HORRIS W. TODD, Drumright, Okla. Filed Mar. 29, 1921. Serial No. 456,524. 4 Claims. (Cl. 294—114.)



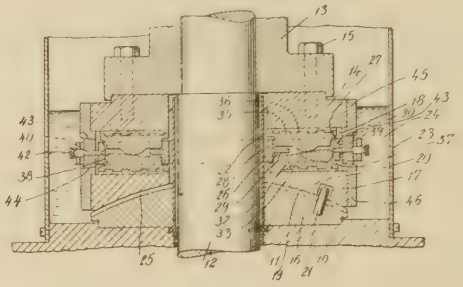
1. In combination with a well tubing and sucker rod, a socket device comprising an upper member supported from the top of the well, a substantially semi-cylndrical hollow body secured thereto and having its lower end formed with circumferential extensions formed at their upper edges with undercut shoulders, a second substantially semi-cylindrical hollow body associated with said first named body and having its upper end formed as a sleeve slidably engageable over said upper member and having its lower end cut away circumferentially and formed with undercut shoulders conformingly engaging said first named shoulders, and mating inwardly extending projections at the lower ends of said sections, said assembled bodies being designed to receive the sucker rod, the latter having an enlargement engageable with said retaining means.

1,419,781. PISTON RING. CHRIST. W. TRIPPENSEE, Jefferson City, Mo. Filed Mar. 5, 1921. Serial No. 449,694. 2 Claims. (Cl. 74—109.)



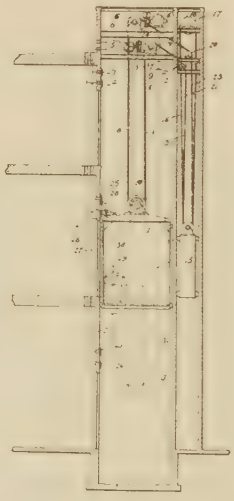
1. A piston ring formed of a pair of superposed eccentric sections of identical construction, each section being of uniform thickness and split with its narrowest portion at the split and its widest portion diametrically opposite the split, the ends of each section at the split being inclined in opposite direction, a lug formed integrally upon each section fitting within the split of the other section and having its ends inclined at substantially the same angle as the ends at the split.

1,419,782. BEARING. FRANK L. O. WADSWORTH, Pittsburgh, Pa., assignor to Albert Kingsbury, Pittsburgh, Pa. Filed June 1, 1918. Serial No. 237,739. 79 Claims. (Cl. 64—25.)



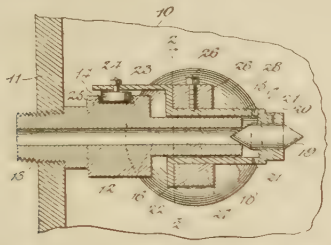
1. In a thrust bearing, the combination of a pair of relatively rotatable bearing members having opposed thrust surfaces, a floating bearing member comprising a series of segments or shoes interposed between the thrust surfaces of the relatively rotatable members, and means for driving the floating members at a predetermined speed less than the speed of the rotatable bearing member.

1,419,783. HOISTING MECHANISM FOR ELEVATORS. NAPOLEON P. JULIEN, Springfield, Mass. Filed Feb. 10, 1920. Serial No. 357,579. 9 Claims. (Cl. 187—29.)



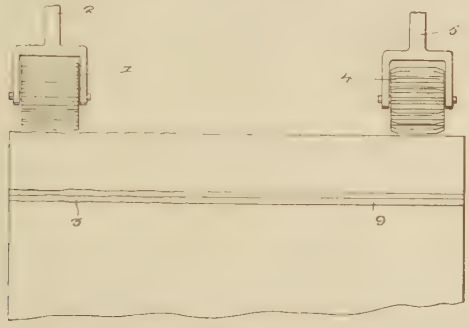
1. In an electric hoisting mechanism, the combination, of a car and a counterweight, a plurality of hoisting motors, designed to move the car at different speeds, when one motor only is operated, a hoisting drum for each motor, cable connections between the car, counterweight, and said drums, said connections being so arranged that when one of said motors is inoperative the strand of the cable which is connected to the drum of the inoperative motor is held against movement while the drum of the other motor is in operation to operate the car at its speed, and vice versa, when the said inoperative motor is in operation and the said operative motor is inoperative, said car will be operated or lifted at a different speed by the said first mentioned inoperative motor, whereby the speed of the car can be varied as it approaches or leaves a landing.

1,419,784. VALVE FOR STEAM TRAPS. WILLIAM WANSTALL, New York, N. Y. Filed Jan. 14, 1921. Serial No. 437,229. 3 Claims. (Cl. 137—103.)



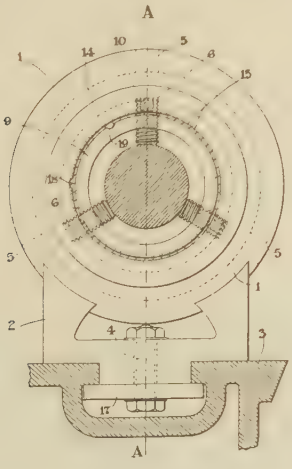
1. In a device of the class described, the combination of a member having an outlet opening and a spiral groove formed in it, a second member mounted for rotary and sliding movement on the first said member, a roller carried by the second said member and travelling in the said spiral groove, a closure member mounted in the second said member and adapted to close the outlet opening in the first said member, and a float connected to the second said member for operating the same to render said closure member effective and ineffective.

1,419,785. PULP-STONE BURR. THOMAS W. WARD, Watertown, and BERT F. MELLEN, Felts Mills, N. Y. Filed Aug. 6, 1921. Serial No. 490,346. 2 Claims. (Cl. 125—37.)



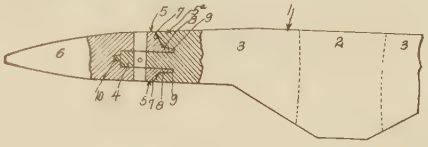
1. A burr, for dressing pulp grind stones, whose teeth are inclined inwardly at the ends thereof, and the depressions between the teeth likewise inclined inwardly at said ends.

1,419,786. STEADYING DEVICE FOR LATHES. HAROLD CHARLES WATERER, Southall, England, assignor to Leonard Patrick Driscoll, Ealing, London, England. Filed Sept. 14, 1920. Serial No. 410,113. 16 Claims. (Cl. 82—39.)



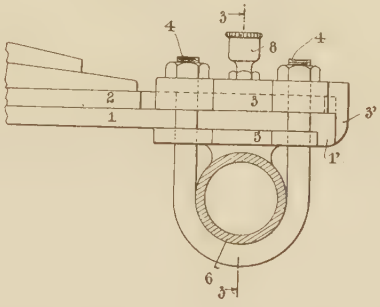
2. In a device for steadying material being operated upon in a lathe, the combination of a housing, a rotatable member in said housing, a plurality of longitudinally spaced anti-friction bearing sets operatively disposed between said housing and rotatable member together with means for gripping material disposed in said rotatable member and located between said anti-friction bearing sets, as set forth.

1,419,787. PICK. EDGAR H. WATT, West Newton, Pa. Filed June 3, 1921. Serial No. 474,719. 3 Claims. (Cl. 306—42.)



1. In a pick, a head including an arm, a point provided at one end with spaced members having flat elements extending from their inner ends, said elements being provided at their inner ends with inwardly projecting fingers, said arm being provided at its outer end with a tongue fitting snuggly between said spaced members and with slots and recesses receiving the flat elements and fingers of the point, and means for detachably securing the point to the arm.

1,419,788. DEVICE FOR ATTACHING THE SUSPENSION SPRINGS OF AUTOMOBILES. ACHILLE LÉON FRANÇOIS WATTE, Sevres, France. Filed July 31, 1920. Serial No. 400,556. 2 Claims. (Cl. 267—53.)

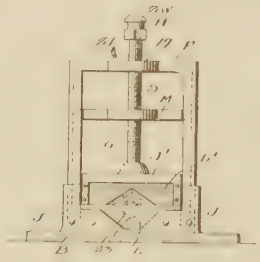


1. In a spring attachment for vehicles the combination with the axle and a spring block attached thereto, of a main spring plate mounted above said spring block and provided with a downwardly depending lug adapted to engage over the edge of said spring block, a second spring plate mounted to slide over said main spring plate and of less width than the said main spring plate, a flange plate mounted above said axle and provided with a lug overlapping the end of the main spring plate, and also provided with a groove adapted to receive the reduced portion of said second spring plate and having its lower face adapted to bear on the upper face of said main spring plate, with U-bolts engaging said axle and projecting up through said flange plate exterior to the upper edges of said main spring plate, and nuts on said U-bolts firmly locking said flange plate, said spring plate, said axle and said main plate together, substantially as and for the purpose described.

1,419,789. CABLE-CUTTING DEVICE. THOMAS WEBB, Ladysmith, British Columbia, Canada. Filed Feb. 23, 1921. Serial No. 447,162. 3 Claims. (Cl. 164—27.)

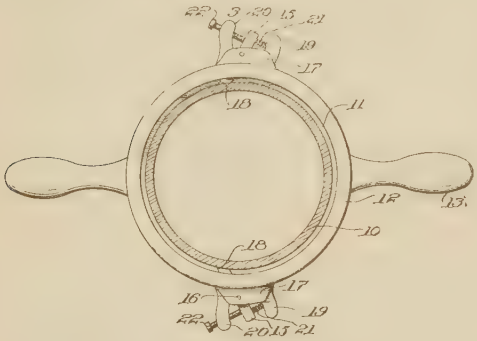
1. A cable cutting device comprising, a stationary jaw, a blade secured within the jaw, a frame secured to the jaw, a movable jaw slidably fitted within the frame, a movable blade carried by the movable jaw, a spindle rotatably mounted in the frame and rotatably connected to the movable jaw, and a presser member slidably fitted within the frame and threadedly engaging said spindle

in such manner that when the spindle is rotated in one direction the presser member is moved into engagement

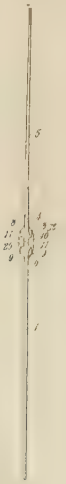


with the frame so that upon continued rotation of the spindle the movable blade is moved in the direction of the stationary blade.

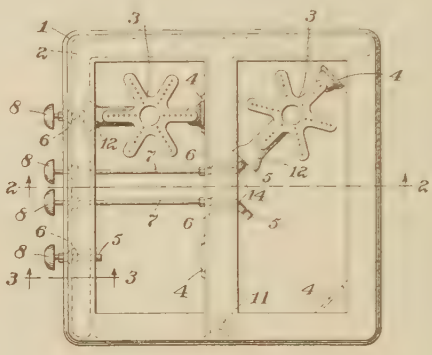
1,419,790. RING-GROOVE CLEANER. LUDIE E. WEDDLE, Eldorado, Okla. Filed Oct. 24, 1921. Serial No. 509,812. 2 Claims. (Cl. 15—104.01.)



1. A piston groove cleaner comprising an annulus adapted to surround the piston, a handle therefor, a cutter pivotally secured to the annulus and having one end extending within the inner diameter thereof for entrance within the ring groove of the piston and an adjustable stop engageable with the opposite end of the cutter for limiting its pivotal movement in one direction.

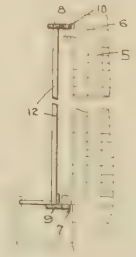
1,419,791. HINGE JOINT. WILLIAM G. WEHRMAN, Ludlow, Ky., assignor to Christian Keck, Crescent Springs, Ky. Filed June 16, 1919. Serial No. 304,484. 5 Claims. (Cl. 16—128.)

4. In a hinge-joint, hinge members each having concentric bearing surfaces facing in different directions on a given radius at opposite lateral sides, a detachable cup having a shaft receiving the bearing surfaces of the two members facing in corresponding direction, and having a rim receiving the other bearing surfaces of the two members at one side of the joint, a detachable cup having a screw threaded axially through said shaft and having a rim receiving the other bearing surfaces of the two members at the other side of the joint, the ends only of the hinge members abutting each other to limit the degree of relative pivotal movement of said members, substantially as set forth and for the purposes specified.

1,419,792. GAS STOVE. FRED E. WHITE, Gardner, Mass., assignor to Central Oil & Gas Stove Co., Gardner, Mass., a Corporation of Massachusetts. Filed Apr. 14, 1920. Serial No. 373,891. 2 Claims. (Cl. 126—39.)



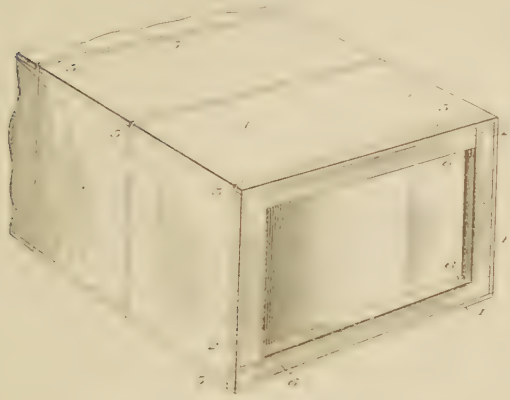
1. In combination with a stove, a frame having a channel enclosed therein, said frame having a central connecting portion also supplied with an enclosed channel, and burners supported between the outer and central portions of the frame.

1,419,793. CRANK HOLDER. HARVEY B. WILSON, Dewitt, Ill. Filed May 14, 1920. Serial No. 381,315. 1 Claim. (Cl. 74—33.)



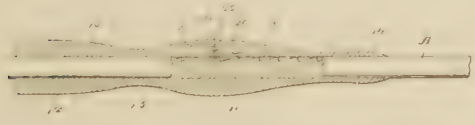
In combination with vertically disposed rods, a retaining device for crank handles including a plate, said plate having shoulders and having an eye adapted to accommodate one of the vertically disposed rods, the shoulders adapted to contact with the adjacent rods, and said plate having a notched portion to accommodate a crank-ing handle.

1,419,794. CORNER LOCK FOR CRATES AND BOXES. J. PEARL WILSON, Jacksonville, Fla. Filed Aug. 5, 1919. Serial No. 315,524. 6 Claims. (Cl. 217—12.)



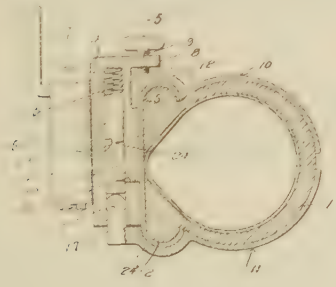
1. A corner lock formed of a staple which spans the portion to be made into the corner before the corner is formed, and has its inner ends driven into head sticks and securely fastened within the sticks against withdrawal after which the corner is formed.

1,419,795. GOLF-STICK HANDLE. WILLIAM C. YERGER, West Philadelphia, Pa. Filed Oct. 18, 1920. Serial No. 417,607. 3 Claims. (Cl. 46—4.)



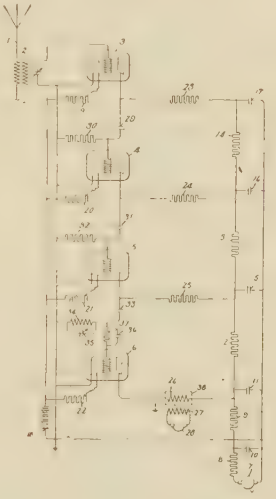
1. In combination, a golf stick provided with a series of ratchet notches, a handle longitudinally adjustable upon the stick and formed internally with a recess, a leaf spring secured at one end within the recess and engageable within any of said notches, and means for holding the spring against movement.

1,419,796. AUTOMOBILE TIRE AND RIM LOCK. JOSEPH ZAHLER, Hudson, Wis. Filed Dec. 14, 1920. Serial No. 430,674. 1 Claim. (Cl. 224—29.)



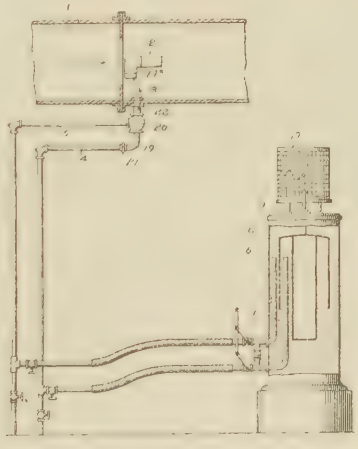
A tire and rim lock comprising a support having a transverse chamber opening outwardly through one side thereof and having its other end closed, a flange formed in the other side of the support and the latter having a recess, a tire and rim engaging element seated in said recess, means adjustable on said flange to force said element against one end wall of said recess, a stem in said chamber and having a notch and a recess, a spring between the stem and the closed end of the chamber, a projection carried by the support and fitting in said second recess, a second rim and tire engaging element having an extended portion into the stem, and a locking means carried by the support to engage the notch to retain the stem and a part of the extended portion in the chamber against the action of the spring.

1,419,797. AMPLIFYING SYSTEM. ERNST F. W. ALEXANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 13, 1919. Serial No. 276,852. 6 Claims. (Cl. 179—171.)



3. The combination in an amplifying system of a series of electron discharge amplifiers connected in cascade, each of said amplifiers having plate and grid circuits, a common source of current for supplying current to the plate circuits of all of said amplifiers in succession from the last to the first of said amplifiers, and filter connections between successive amplifiers of the series.

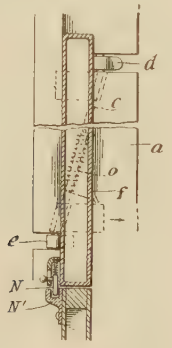
1,419,798. DEVICE FOR MEASURING THE VELOCITY OF GASES. HERMAN BACHARACH, Pittsburgh, Pa., assignor to Bacharach Industrial Instrument Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 21, 1919. Serial No. 298,631. 7 Claims. (Cl. 73—167.)



1. A flow measuring device comprising a tube adapted to be inserted into a main carrying a current of gas to be measured and converging down-stream thereof, a stem for said tube adapted to pass through the wall of the main

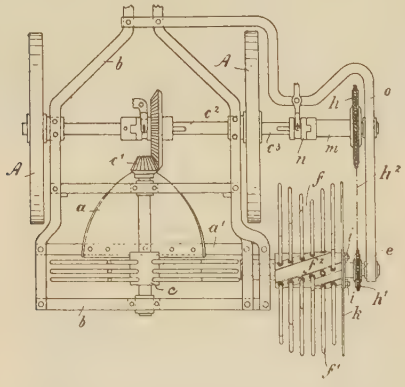
and constitute a support for the tube and comprising a pair of pipes, one of such pipes opening at its end into the tube and being directed toward the down-stream end of the tube, and the other of such pipes opening at its end outside the tube and in a direction opposite to the end of the other tube and toward the flow of gas.

1,419,799. VEHICLE TOP. GUSTAVE BAEHR, Paris, France. Filed Feb. 26, 1920. Serial No. 361,397. 3 Claims. (Cl. 296—44.)



2. In a device of the character described, a plate, bearings carried by said plate and spaced horizontally and vertically, an obliquely extending shaft journaled in said bearings, said plate being slotted adjacent the ends of said shaft, a lug carried by one end of said shaft and operating in the adjacent slot, and an operating lug carried by the opposite end of said shaft and having an operating toe extending above the plate.

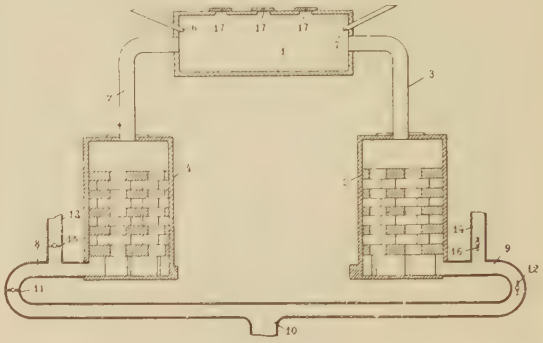
1,419,800. POTATO-HARVESTING MACHINE. MARTIN DIEDRICH JAKOB GOTTLIEB BARDOWICK, Deinste, near Stade, Germany. Filed Apr. 25, 1922. Serial No. 556,386. 2 Claims. (Cl. 55—56.)



1. A potato harvesting machine, comprising a rotatable digger arranged to rotate in a plane transverse to the direction of movement of the machine, and a delivery wheel journaled at right angles to the digger and provided with rows of blades, the blades being mounted in rows on lines running helically about the axis of rotation.

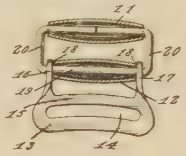
1,419,801. PROCESS OF MAKING IRON OR STEEL. LUCIEN PAUL BASSET, Paris, France. Original application filed Oct. 24, 1918, Serial No. 259,558. Divided and this application filed June 4, 1919. Serial No. 301,843. 2 Claims. (Cl. 75—50.)

1. A process for the direct production of iron and its carbon compounds consisting in causing scrap iron or steel to be melted in a flame containing a relatively large



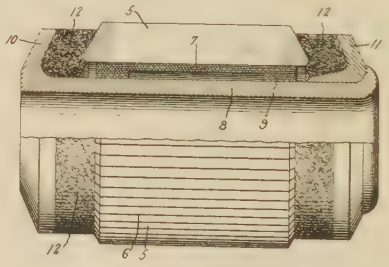
per cent of carbon monoxid and free from carbonic acid and water vapor.

1,419,802. SUPPORTER FOR SUSPENDERS. JOHN F. BEAR, Mansfield, Ohio. Filed June 23, 1921. Serial No. 479,883. 1 Claim. (Cl. 241—19.)



In a suspended link, an upper section and a lower section, the upper section comprising opposed bars, rollers supported on the bars, the lower section comprising a bar having a curved elongated opening, opposed arms forming a part of the lower section, said arms having openings to accommodate portions of one of the bars of the upper section to permit of pivotal movement between the sections, and said arms adapted to engage the ends of one of the rollers.

1,419,803. COMMUTATOR AND THE LIKE. SVEN R. BERGMAN, Nahant, Mass., assignor to General Electric Company, a Corporation of New York. Filed Sept. 3, 1920. Serial No. 407,829. 14 Claims. (Cl. 171—321.)



3. In combination, a rotary ring member for conveying electric current, clamping means therefor, and resilient insulating means comprising spinnable textile fibrous material interposed between said ring member and clamping means and held under compression by said clamping means.

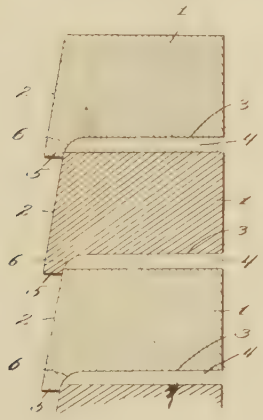
1,419,804. MIRROR SUPPORT. WILLIAM BERWALD, Babbitt, Minn. Filed June 18, 1921. Serial No. 479,159. 2 Claims. (Cl. 16—146.)

1. The combination with a fixed standard and a movable frame, of a pair of telescopic members, one fixed to the said support and the other to the movable frame,

whereby one member may move longitudinally with respect to the other, a collar carried by the free end of one of the telescopic members and provided with circumferentially spaced teeth, a slidable pawl engageable with the teeth,

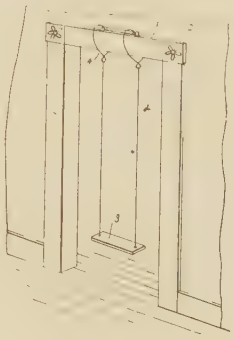
the end of the movable member adjacent the said collar being recessed to receive the said sliding pawl, and a resilient element in contact with the pawl to normally urge the latter into engagement with the teeth.

1,419,805. BRICK WALL CONSTRUCTION. ALBERT D. BIGLER, Clearfield, Pa. Filed Mar. 3, 1920. Serial No. 363,006. 2 Claims. (Cl. 72—37.)



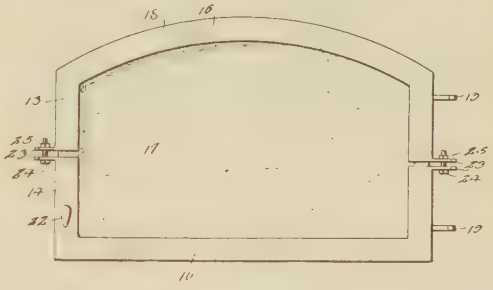
2. A building block having a rear vertically straight side, a flat top, a front lower depending projection constituting the lower front terminal of the block, and an upper downwardly beveled corner portion at the front, the front side of the block being smooth and sloping downwardly and outwardly from the lower terminal of the upper bevel to the lower terminal of the projection, a recess being formed in the bottom of the block from the rear straight side of the block to and continuing into a beveled rear side of the projection, the beveled rear side of the projection being adapted to snugly fit over the upper bevel of an adjacent similar block and the space providing means for a filling of cementitious material between the bottom and upper sides of adjacent blocks.

1,419,806. SWING HANGER. CHESTER WM. BIRCH, Chicago, Ill. Filed Oct. 4, 1919. Serial No. 328,556. 7 Claims. (Cl. 155—58.)



1. A swing hanger including a pair of end sections each having a loop at its lower end integrally connecting the arm portions of the sections, said arm portions being separated at their upper ends, and transversely extending means uniting said end sections.

1,419,807. FIRE DOOR. ADOLPH J. BOEHM, New York, N. Y.; Florence A. Boehm administratrix of said Adolph J. Boehm, deceased. Filed June 8, 1918. Serial No. 238,965. 1 Claim. (Cl. 110—173.)

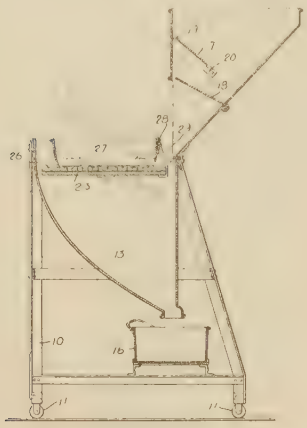


A furnace door comprising a single slab of fire brick, a sheet of asbestos disposed against one side thereof, a supporting frame comprising a pair of metallic sections each L-shaped in cross section and including a band portion engaging and entirely covering the edges of said slab and further including a flanged portion engaging said sheet of asbestos adjacent its edges whereby to hold said sheet of asbestos in engagement with said slab, outwardly extending ears at the ends of said band portions, and clamping bolts extending through the adjacent ears, said ears being relatively thin compared with said band portions whereby a limited degree of flexibility is attained to permit relative movement of said frame sections during expansion and contraction of said slab under the influence of varying temperatures.

1,419,808. CONFECTION-MAKING APPARATUS. THEODORE BOSSHARD, Brooklyn, N. Y. Filed May 6, 1921. Serial No. 467,322. 10 Claims. (Cl. 107—7.)

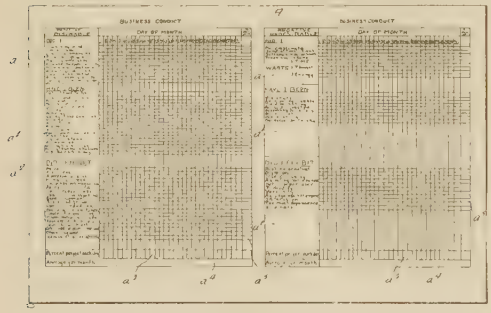
1. A confection making apparatus including a frame,

a delivery trough secured to said frame, a hopper also carried by said frame and arranged below said trough, a



tray support movably mounted within said hopper, and means for oscillating said tray support.

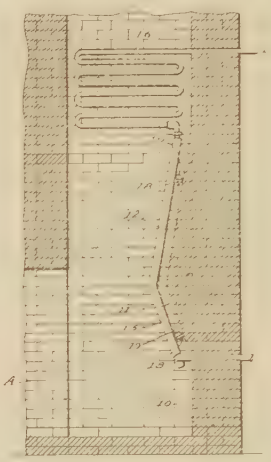
1,419,809. EFFICIENCY AND EDUCATIONAL CHART. JOSEPH LUCVETT BOWLES, Jr., Pittsburgh, Pa. Filed July 11, 1921. Serial No. 483,737. 2 Claims. (Cl. 283—66.)



1. A chart of the character described, comprising a sheet of suitable material having the surface thereof ruled with vertical and horizontal lines so as to form a series of spaces at one side of the sheet in both vertical and horizontal alinement, and a vertical column at the other side of the sheet having written or printed therein a series of words and phrases depicting various shades of character and temperament, or indicative of thought or action along the lines of business, personal or social conduct, and in alinement successively with said horizontally alined spaces; said vertical series of spaces being numbered consecutively to correspond with the number of days in a given period of time, delineated spaces below and in alinement with said vertical series of spaces, and words or phrases in alinement with said delineated spaces indicating percentages and the average for the number of days covered by said period of time.

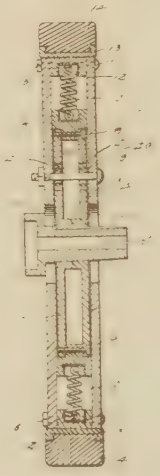
1,419,810. FIREPLACE. ERNEST BRAMMER, Victoria, British Columbia, Canada. Filed Aug. 16, 1919. Serial No. 317,995. 1 Claim. (Cl. 126—132.)

A heater for a fireplace wherein the back wall has a forwardly inclined portion which merges into a rearwardly inclined portion, said heater including a water back of a width substantially equal to the width of said rear wall and having closely associated walls, said water back including two angularly disposed portions defining an obtuse angle between the same, one of said portions being equal in area to the forwardly inclined portion of said rear wall, and said other portion being equal in area to the rearwardly inclined portion of said wall, means for



supporting the water jacket upon said inclined portions in a manner whereby said jacket is equi-distantly spaced from the wall throughout its length, and a coil disposed above the water jacket and detachably associated therewith.

1,419,811. AUTOMOBILE SPRING WHEEL. WILLIAM L. BUCKELS, Fort Payne, Ala. Filed May 4, 1918. Serial No. 232,608. 2 Claims. (Cl. 152—38.)



1. A spring wheel comprising a hub, inner spaced plates having centrally arranged openings to receive the hub, flanges formed on the opposing faces and about the openings of said plates and keyed to said hub, an inner rim resting on the peripheries of the plates and having a portion projecting between said plates and secured to the latter, an outer wheel structure, and cushion means between said outer wheel structure and the inner rim.

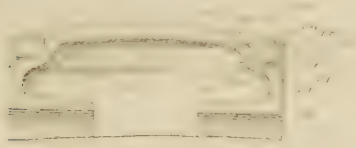
1,419,812. MACHINE TOOL. ALEXANDER STIRLING BURNETT, Reddish, England. Filed Oct. 25, 1921. Serial No. 510,389. 5 Claims. (Cl. 29—47.)

1. A traversing motion for machine tools comprising in combination a moving member two spindles, interconnected with the moving member, means to rotate said spindles intermittently at different speeds, control mech-

anism to govern the rotation of said spindles and means to selectively and automatically actuate the control mechanism in synchronism with the movements of the moving member, so that the rotation of one spindle causes a fast

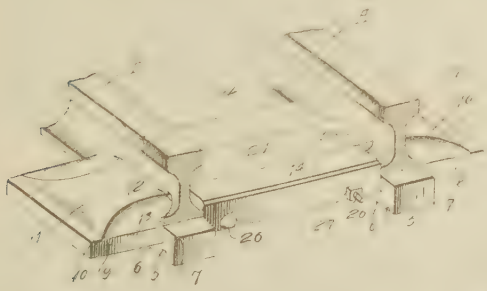
forward motion of the moving member and the rotation of the other spindle causes a fast backward motion, whilst the simultaneous rotation of both spindles causes a slow feed motion.

1,419,813. PISTON AND PISTON RING. WALTER W. BURNS, Greenport, N. Y., assignor to Harry B. Johnston, Seattle, Wash. Filed Dec. 1, 1920. Serial No. 427,603. 10 Claims. (Cl. 74—109.)



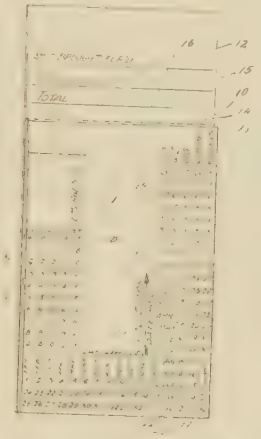
1. In combination, a piston having a groove and a piston ring in the groove, the groove having an inclined wall, the ring having a plurality of sections, one of the ring sections having an outer surface for engaging a cylinder and oppositely disposed outwardly diverging conical surfaces, one of which contacts with the inclined wall of the groove, another ring section having upwardly diverging surfaces, one of which is conical and similar in angularity to, and cooperating with, one of the conical surfaces of the first mentioned ring section, the other being in contact with a wall of the groove, the second section having a surface, between the diverging surfaces, which is exposed to the pressure at the end of the piston.

1,419,814. STEEL RAILROAD TIE. OLIVER BURRELL, Benson Mines, N. Y., assignor of one-half to Albert Burrell, Benson Mines, N. Y. Filed Feb. 17, 1922. Serial No. 537,345. 3 Claims. (Cl. 238—38.)



1. A rail tie including a pair of rail supporting members, rail base flange engaging elements formed integrally with one end of each member, a locking plate removably secured to the upper sides of the members when in union, and means to hold the members and locking plate connected together, as and for the purpose specified.

1,419,815. MEANS EMPLOYED IN COLLECTION SYSTEMS. GEORGE W. BUSH, Covington, Ky. Filed Aug. 9, 1920. Serial No. 402,234. 2 Claims. (Cl. 283—48.)



1. Means employed in a collection system, comprising duplicate receipts carrying data as to date of payments due and paid and the amount thereof, the receipts being designed for simultaneous punching at selected data indications, and a stub carried by one of the receipts and divided therefrom by a line of perforation, the receipt unprovided with the stub being folded upon the other with the free end of the former lying along said line of perforations.

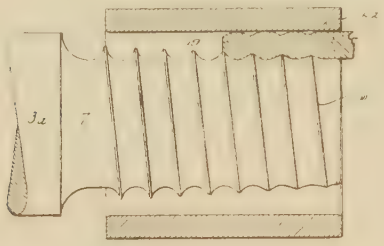
1,419,816. MULTIPLE-FILAMENT INCANDESCENT LAMP. LEON CAMMEN, New York, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 15, 1918. Serial No. 228,629. 5 Claims. (Cl. 176—27.)

1. An incandescent electric lamp having two supply terminals and two filaments, one permanently connected in circuit with said terminals and the other normally kept out of circuit, and means comprising cooperating contacts and a removable insulating member between said contacts for holding them separated and rendered operative by the removal of said insulating member from between the contacts to close the circuit through said auxiliary filament.

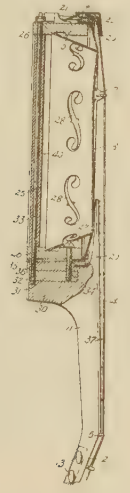
1,419,817. BALL-ROLLING APPARATUS. FERDINAND MORA CANDA, New York, N. Y. Filed Aug. 27, 1919. Serial No. 320,174. 14 Claims. (Cl. 80—18.)

1. In a ball rolling apparatus, the combination of two rolling members annularly related relatively, both mem-

bers being fixed against axial movement, one of said members mounted for rotation with despect to the other, and one of said members provided with means for drawing the material acted on in a generally axial direction between said members, one of said members being provided with means for reducing the material acted upon to ball form.

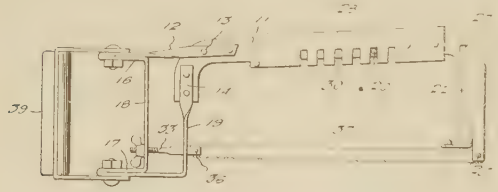


1,419,818. BANJO. ROCCO ANTONIO CARLUCCI, West New York, N. J. Filed Mar. 31, 1921. Serial No. 457,222. 9 Claims. (Cl. 84—270.)



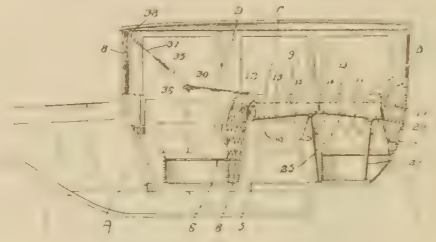
1. In a banjo, a ring-shaped body, a parchment head held on the said body and an annular resonance chamber within the opening of the said body and having its outer wall formed by the said body, the inner wall of the said resonance chamber being seated on the inner surface of the said body and being inclined upwardly and inwardly and in contact at its upper edge with the under side of the said parchment head a distance inward from the said body, the said inner wall being provided with tone openings.

1,419,819. SAW. ALBERT WILSON CHIDDIX, Lamesa, Tex. Filed June 14, 1920. Serial No. 388,916. 4 Claims. (Cl. 145—34.)



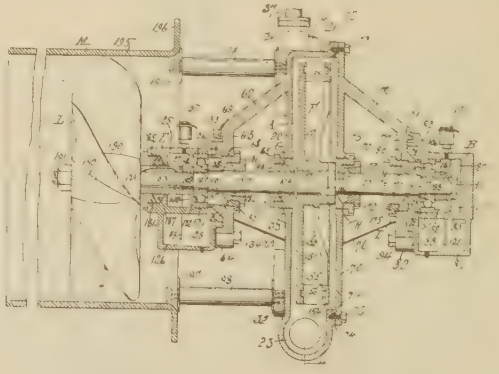
4. A saw of the character described comprising a frame of substantially U-form, a strip secured at one end of the frame and bent and rebent at spaced points whereby to define a brace member disposed in parallel relation to one end of the frame and to define spaced lugs, a threaded member disposed through a hole in said brace member and slidable through an opening in the adjacent side of the frame, said member having a transverse pin engageable by the hole in one end of the blade, a pair of pins at the opposite end of the frame and disposed at right angles to each other and selectively engageable by the hole in the other end of the blade, said threaded member being disposable in either of two planes whereby the blade may be disposed in the same plane with the frame or in a plane at right angles thereto, a clamping nut threaded upon said threaded member, and a handle at the end of the frame and connected with said lugs, said handle being disposable to extend beyond one side of the frame and said threaded member being capable of disposition within the hole in said brace member with one end lying against the adjacent side of the frame whereby the saw blade may be disposed entirely at one side of the frame.

1,419,820. AUTOMOBILE BED. LOUIS J. CLERGY, Belt, Mont., assignor to Liberty Manufacturing Company, Belt, Mont., a Corporation of Montana. Filed Nov. 26, 1920. Serial No. 426,519. 5 Claims. (Cl. 5—72.)



3. An automobile bed comprising a pair of pivotally connected frames adapted to be folded in relation to each other, pivoted legs carried by the frames, means for pivoting one of the frames to one of the seats of the automobile, removable cushions arranged on the frames, and a removable collapsible head rest adapted to be associated with one of the seat backs of the automobile.

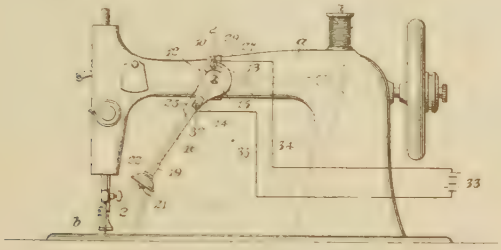
1,419,821. LUBRICATING DEVICE. CHARLES T. COE, Kearny, N. J. Filed June 23, 1919. Serial No. 306,068. 5 Claims. (Cl. 64—31.)



1. The combination of a casing, a shaft extending through the casing, a rotor in the casing and fastened to said shaft, arms extending from the casing, a detachable cap supported by said arms having contained therein a journal chamber and an oil reservoir, ports connecting

said chamber and reservoir, and a lubricant collecting and distributing ring extending from the journal chamber, through said ports into and through a lubricant in the oil reservoir, said ring carrying the lubricant from said reservoir to said chamber and lubricating said shaft during the rotation of the latter.

1,419,822. ILLUMINATING DEVICE FOR SEWING MACHINES. JOSEPH CORBE, Washington, D. C., assignor to Robert Henry Simpers, Washington, D. C. Filed Nov. 22, 1921. Serial No. 516,977. 1 Claim. (Cl. 240—2.)



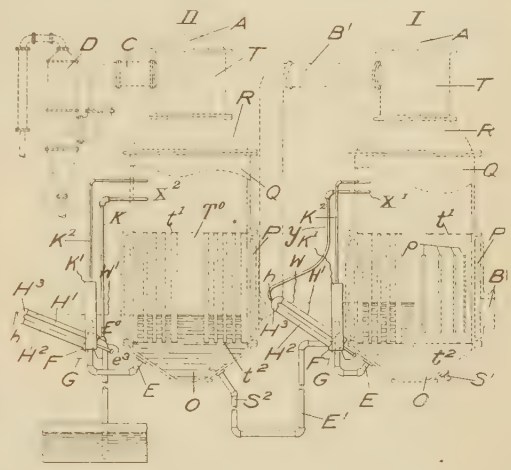
In a support for electric lamps, the combination of a clamping means, a disk of an insulating material carried by said clamping means, a second disk of insulating material pivotally mounted on said first mentioned disk, and of equal diameter with respect thereto, an arm formed with said second disk and extending radially therefrom, an arm extension secured to said arm in alinement therewith, an electric lamp socket carried at the free end of said arm extension and having a lamp seated therein, a switching means having a contact finger fixed in position on the peripheral edge of said first mentioned disk, and projecting over the peripheral edge of said second mentioned disk, and a second contact carried by the latter disk and cooperating with said contact finger, and electrical connections connecting said lamp socket with the contact finger and contact of said switching means.

1,419,823. MILK-BOTTLE-CAP REMOVER. ROBERT N. COX, Waukegan, Ill. Filed July 11, 1921. Serial No. 483,859. 4 Claims. (Cl. 215—55.)

1. A paper cap and an opening strip of substantially uniform width throughout its length having its intermediate portion extending across the under side of the cap, and having its end portion projecting to unequal distances and folded to engage opposite edges of the cap and secured thereto, the shorter end being attached throughout its extent and the longer end having its terminal portion loose to provide a grip which is spaced from the shorter end.

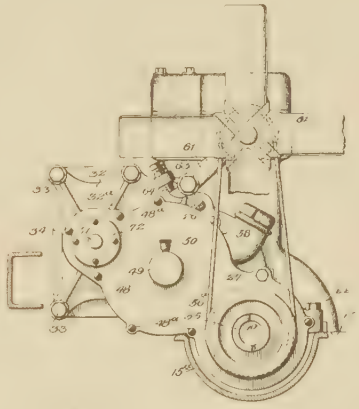
1,419,824. MEANS FOR CONTROLLING THE LEVEL OF LIQUIDS IN EVAPORATING APPARATUS. WILLIAM H. P. CREIGHTON, New Orleans, La. Filed Dec. 31, 1920. Serial No. 434,367. 11 Claims. (Cl. 127—18.)

1. In apparatus of the character described, means for controlling the height of a liquid in a heater comprising a liquid delivery line, an overflow chamber in said liquid delivery line, means for maintaining on the overflowing liquid in said chamber the steam pressure as that on the liquid surface of the heater, and means for adjusting



the height of the overflow point of said overflow chamber by revolving it in an arc of a circle in a vertical plane.

1,419,825. STARTING AND LIGHTING SYSTEM FOR MOTOR VEHICLES. JAMES K. DELANO, New York, N. Y. Filed Mar. 11, 1918. Serial No. 221,697. 3 Claims. (Cl. 290—46.)

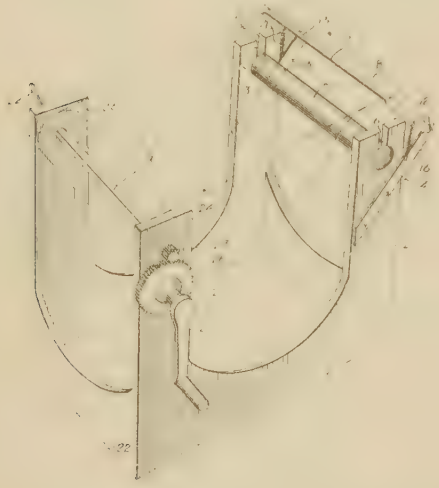


2. The combination with an internal combustion engine having a cam shaft, time gears whereby said cam shaft is driven from the engine crank shaft and casing means partially housing said time gears and provided with established points for attachment thereto of a cover, of a cover, dynamo electric means, a driving connection between said dynamo electric means and said crank shaft including a gear mounted on said cover out of alinement with said cam shaft and having a rim projecting rearwardly over the forward end of said cam shaft, said cover being arranged to support said dynamo electric means and to provide housing means for said driving connection and means utilizing at least some of the said established points of attachment in said casing for securing said cover to said casing means.

1,419,826. REWINDING APPARATUS. CHARLES DI COMO, Rahway, N. J., assignor of one-half to George Meir, Rahway, N. J. Filed Apr. 15, 1921. Serial No. 461,468. 1 Claim. (Cl. 242—55.)

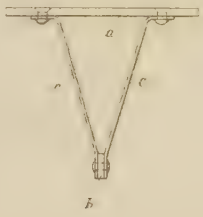
A re-winding apparatus of the character described, comprising a body having two pairs of uprights, one pair of said uprights having a slot on the upper end thereof,

each upright of said pair having a supporting bar provided with an opening on the upper end thereof, a U-shaped member pivotally secured to said bars and straddling the entire space between said uprights of said pair, a spring acting on said U-shaped members for pulling same downwardly, a roller carrier having an annular groove on each end thereof and fitting in said slots,



a roll of paper mounted upon said roller frictionally held from accidental rotation from said U-shaped member, a round opening for each of the other uprights, a pinioned roller for said round openings, said roller having an annular groove on one end thereof for receiving a manually retracted holding finger to prevent said roller from longitudinal movement, and a handle to rotate said roller.

1,419,827. CONSTRUCTION MEMBER. CLAUDIUS DORNIER, Friedrichshafen, Germany, assignor to the Firm Luftschiffbau Zeppelin Gesellschaft mit beschrankter Haftung, Friedrichshafen, Germany. Filed June 28, 1920. Serial No. 392,558. 4 Claims. (Cl. 189—27.)

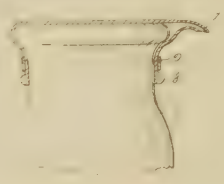


1. A sheet metal girder of triangular section comprising in combination, a pair of converging sheet metal strips fixed to one another along their abutting edges, the free edges being bent outwards so as to extend in line with one another, and a base plate of sheet metal of superior thickness fixed to and connecting said bent edges.

1,419,828. TUBULAR HOLLOW BODY. CLAUDIUS DORNIER, Friedrichshafen, Germany. Filed June 28, 1920. Serial No. 392,564. 3 Claims. (Cl. 244—31.)

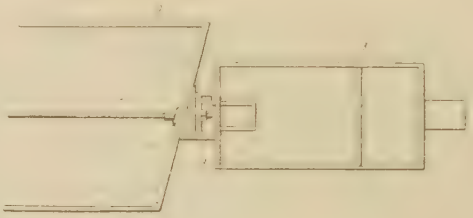
1. In a flying machine strut in combination, a seamless tubular main portion of stream line section and a seamless gradually tapering end portion of greater wall thickness than said main portion.

1,419,829. BOTTLE TOP. JAMES F. DOWD, Newport, R. I. Filed Dec. 23, 1920. Serial No. 432,758. 1 Claim. (Cl. 215—38.)



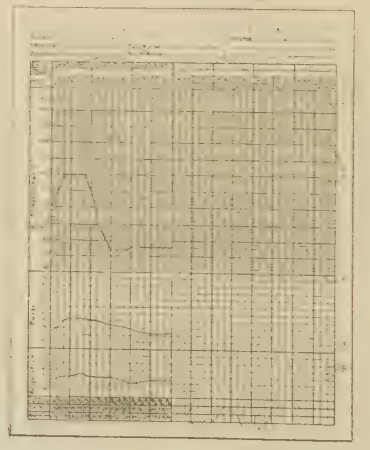
In a combined cover and spout for bottles, a cap having a side portion adapted to embrace a bottle neck and a covering portion adapted to extend over the mouth of a bottle, the said covering portion being extended on one side and adapted to project beyond the side of a bottle and merging with an extension of the side portions of the cap, the said cover having an aperture at approximately the point of merger of the said covering portion and side portion.

1,419,830. SLUDGE-TABLE BLOCK. FRED DUNHAM, Commerce, Okla. Filed May 13, 1920. Serial No. 381,097. 1 Claim. (Cl. 83—88.)



The combination with a sludge table having an inclined deck head and a draw bar extending therethrough from a thrust bar to normally directly contact with said deck head, of a block unattached to said head, separable from and mounted on the bar intermediate the deck and thrust bar, having an inclined face to engage the deck head and a face at an angle to said face to engage the thrust bar so as to be self positioning in combination with the trust bar and draw bar fastening and to overcome lost motion and the usual pounding and jarring between the thrust bar and deck head.

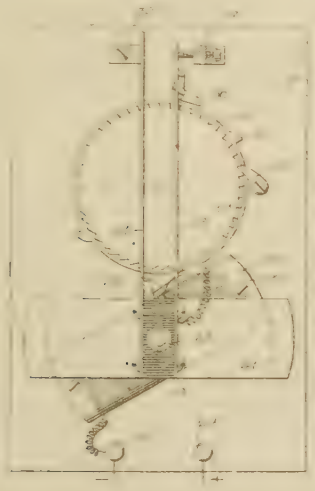
1,419,831. HOSPITAL CHART. FRANCES M. ECKES, Jersey City, N. J. Filed Mar. 24, 1921. Serial No. 455,102. 1 Claim. (Cl. 283—1.)



A chart of the character described, comprising a sheet of material ruled to provide a plurality of vertical

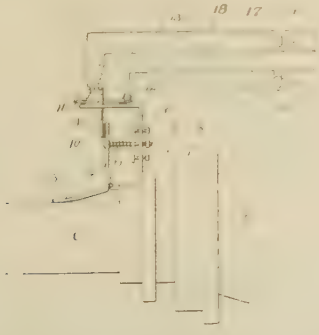
columns, each pair of columns located under designated spaces adapted to receive a date therein, said columns being under the alternate captions of A. M. and P. M., each of said columns being divided into smaller columns under the captions 4, 8 and 12, said sheet being ruled to provide relatively wide horizontal divisions intersecting the vertical columns under the captions Temperature Pulse and Respiration, wherein data may be recorded graphically and relatively narrow horizontal divisions under similar captions wherein the same data may be recorded numerically, said divisions being so arranged that the graphical and numeral records are in vertical alignment.

1,419,832. WINDING DEVICE. VICTOR EMANUEL EXTROM, Fulda, Minn. Filed Oct. 19, 1920. Serial No. 417,935. 11 Claims. (Cl. 185—40.)



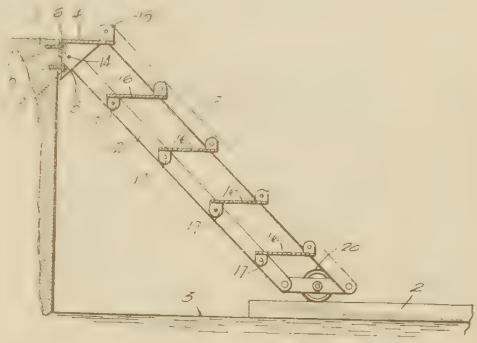
1. A motor including in combination with a shaft and spring having one of its ends attached to said shaft to effect a rotation thereof, of a collar rotatably encircling said shaft and having the opposite end of said spring connected thereto, a disk secured to said collar, a plurality of teeth forming a part of said disk and being arranged at substantially diametrically opposite points in the periphery thereof, a secondary disk secured to said collar, teeth forming said secondary disk, a pawl adapted to engage said latter teeth, means for effecting a projection and retraction of said pawl to rotate said disk and collar, and means adapted to be engaged by the teeth of the first named disk for causing a cessation of operation of said pawl.

1,419,833. ATTACHMENT FOR PUG MILLS. CHARLES M. FEE, Fulton, Mo. Filed July 1, 1919. Serial No. 307,902. 4 Claims. (Cl. 177—311.)



4. An indicating means comprising a pug mill and means for indicating a change from normal in the density of the material forced from the mill.

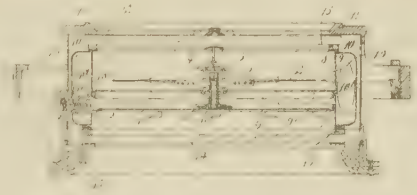
1,419,834. ADJUSTABLE TREAD STAIRS. DANIEL W. FELLOWS, Los Angeles, Calif. Filed May 26, 1921. Serial No. 472,644. 1 Claim. (Cl. 228—54.)



A stairway comprising a bracket having a tread portion, downwardly and backwardly extending side flanges and upwardly and forwardly extending ears, rails pivotally connected to the side flanges, rails pivotally connected to the ears, and tread plates having depending ears at their rear sides pivotally connected to the first rails and having upwardly extending ears at their front sides and pivotally connected to the second rails.

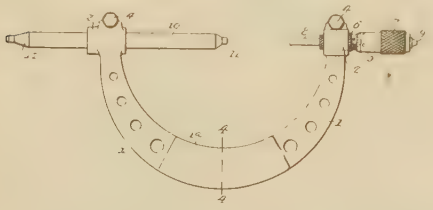
1,419,835. ADJUSTABLE STOVE LEG. FRED. H. FERCH, Joplin, Mo. Filed Aug. 17, 1921. Serial No. 492,921. 1 Claim. (Cl. 126—304.)

A stove leg having a screw-threaded stud on its lower end and a cup shaped member having its interior screw-threaded engaging said stud, a shoulder on the stud for limiting the movement of the member on the stud so as to leave a space between the lower end of the stud and the bottom of the member, holes in said member communicating with said space and a flange on the bottom of said member.

1,419,936. MARINER'S COMPASS. MICHAEL B. FIELD, Glasgow, Scotland, assignor to Kelvin Bottomley & Baird, Limited, Glasgow, Scotland, a Corporation of Great Britain. Filed Dec. 20, 1918. Serial No. 267,625. 3 Claims. (Cl. 33—223.)

1. A magnetic compass comprising a card and a chamber containing a liquid medium in which said card is

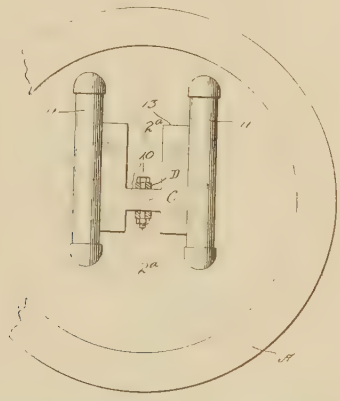
poised, said medium being a volatile saturated hydrocarbon having the formula C_nH_{2n+2} the product of whose density and co-efficient of viscosity, at a temperature between about 20° C. and 25° C., is not more than about one fourth of the product of the density and co-efficient of viscosity of the usual alcohol and water mixture.

1,419,837. MICROMETER CALIPERS. LOUIS FLACHSKAMPF, Lost Creek #2, Pa. Filed Dec. 26, 1918. Serial No. 268,338. 2 Claims. (Cl. 33—167.)



1. The combination of a substantially U-shaped frame; a micrometer mounted on one branch of said frame; an anvil rod mounted on the second branch of the frame; a double chuck rod mounted on the outer end of said anvil rod; and a second anvil rod supported by the chuck rod in position to cooperate with the micrometer in making inside measurements.

1,419,838. SHOCK ABSORBER. WILLIAM H. GAINES, Estill Springs, Tenn. Filed Dec. 6, 1920. Serial No. 428,709. 3 Claims. (Cl. 280—96.2.)

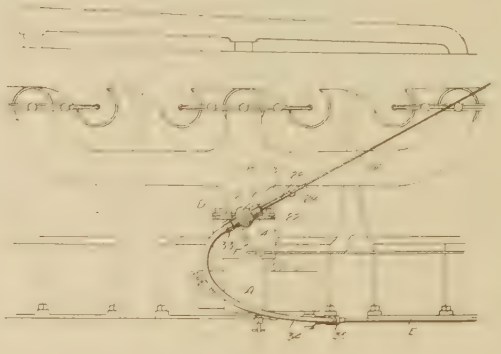


1. A shock absorbing mechanism for the front wheels of motor vehicles, comprising combination with the front axle, of a spindle body pivotally connected with each end of the axle, a slide member carried by said spindle body, guide means slidable accommodating said slide and provided with spaced slotted housings, said slides being formed with extensions passing through said slots and movable within said housings, and a pair of springs within each housing engaging against the top and bottom of the extension therein.

1,419,839. PROCESS OF MANUFACTURE OF ZINC CUPS INTENDED FOR DRY CELLS. ESPRIT LÉON GASTON, Lyon, France. Filed June 28, 1920. Serial No. 392,458. 2 Claims. (Cl. 204—8.)

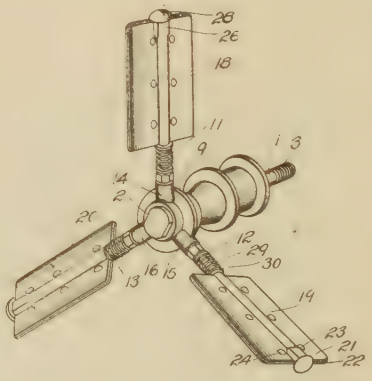
1. The herein described process for the manufacture of zinc cups for use in dry cells, which consists in immersing an aluminum support in an electrolytic bath, causing the deposition by electrolysis from the bath of substantially chemically pure zinc upon the aluminum support in a one piece electric dry cell cup structure, removing the aluminum support with the one piece cup formed thereon from the bath, and subsequently stripping the cup from the aluminum support, substantially as described.

1,419,840. COLD-WEATHER STARTER FOR MOTOR-DRIVEN VEHICLES. EWALD C. GEHRKE and EMIL A. GEHRKE, Chelan, Wash. Filed July 29, 1921. Serial No. 488,411. 3 Claims. (Cl. 123—187.5.)



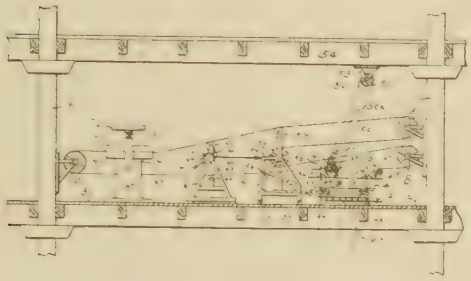
1. A priming device including a valve casing, an atomizer disposed in a plane transverse to said casing and adapted to be secured between an intake manifold and a carbureter to direct a priming charge to the fuel mixing chamber, said atomizer presenting an opening to register with the intake and carbureter and having members to be fastened with the fastening of the carbureter to the intake flange, said casing having a lateral outlet and the atomizer having a lateral inlet connected with said outlet to support the casing on the atomizer, a plug in said casing and formed with an axial bore having an inlet at one end leading thereto, and a lateral outlet between its ends leading therefrom, to the interior of the valve casing, a cap nut on the plug at the rear end, a valve stem axially movable in said plug and extending through the capped rear end thereof, said stem having valves thereon controlling respectively the inlet and the outlet of said plug, means to operate said valve stem, and means to connect the inlet end of the plug with a gasoline supply pipe.

1,419,841. MOTOR FAN. PHILIP GENNETTE, Aurora, Kans. Filed Dec. 31, 1920. Serial No. 434,304. 3 Claims. (Cl. 170—162.)



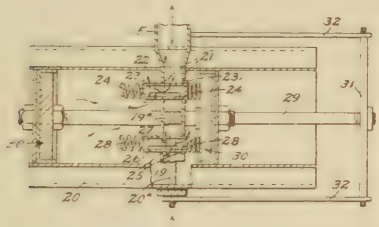
1. A motor fan comprising a rotatable head, radial arms carried by said head and having angular ends, and longitudinally, spring-urged blades slidable on the arms and having sockets at their outer ends to engage the heads so that the blades will be held against rotative movement with respect to their arms.

1,419,842. PROCESS FOR MAKING BELTING. EDWARD F. GINGRAS, Buffalo, N. Y. Filed Sept. 4, 1918. Serial No. 252,634. 14 Claims. (Cl. 154—4.)



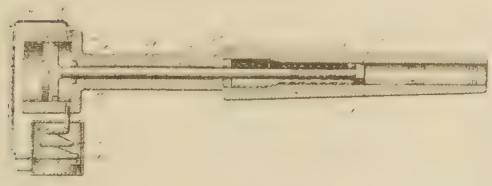
1. A process of making belting from an endless belt of flexible material consisting in treating said material with a gelatinous solution, placing it under a stretching tension and holding it under such tension until dried.

1,419,843. LAWN SPRINKLER. NATHAN H. GOODBAR, Los Angeles, Calif. Filed Feb. 21, 1921. Serial No. 446,791. 12 Claims. (Cl. 299—49.)



1. In a lawn sprinkler, an oscillating cylinder provided with a partition, a portion of which is hollow, valves arranged for movement through the hollow portion of the partition, a sprinkler head connected to the hollow portion of the partition, a piston rod arranged to move through said partition, and pistons on said rod on opposite sides of said partition.

1,419,844. DEVICE FOR GENERATING HIGH PRESSURE. ALBERT E. GUY, U. S. Army. Filed Jan. 30, 1918. Serial No. 274,134. 7 Claims. (Cl. 29—111.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

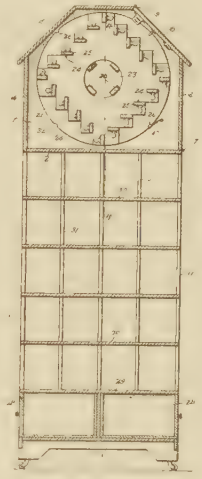


1. A device for applying pressure to the interior of tubes consisting of a cylinder mounted in axial alinement with the tube, sealing walls in the adjacent ends of the tube and the cylinder, pistons mounted in the tube and cylinder, a connecting rod between the pistons, fluid fillers between the pistons and the sealed ends of the tube and cylinder, and means for changing the temperature of the contents of the cylinder.

1,419,845. TREATMENT BY PRESSURE OF CAST AND FORGED STEEL TUBES. ALBERT E. GUY, U. S. Army. Filed Oct. 17, 1918. Serial No. 258,652. 12 Claims. (Cl. 29—1.11.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

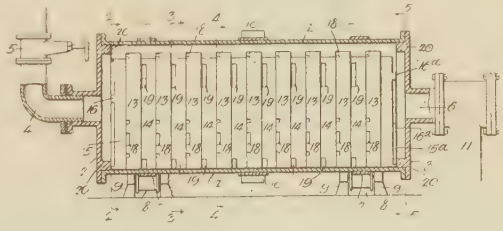
1. The method of treating a metallic tube which consists in filling the tube with a substance having a coefficient of expansion under heat greater than that of the tube, closing the ends of the tube, and heating the tube to expand said substance and tube until the greater expansion of said substance permanently distends the inner layers of the tube.

1,419,846. DISPLAY CABINET. WILLIAM A. HALL and OTIS ROBINSON, Augusta, Kans.; said Robinson assignor to said Hall. Filed July 12, 1921. Serial No. 484,145. 3 Claims. (Cl. 211—18.)



1. A device of the class described including supporting members in spaced relation and mounted for rotation, each of said supporting members having outwardly opening marginal sockets directed tangentially to the axis of the same, and supports bearing at their ends respectively in said sockets and extending between said members and adapted to support articles to be displayed.

1,419,847. MACHINE FOR PRESSING FIBERS OF WOOD PULP. CHARLES LACEY HAMILTON, Philadelphia, Pa. Filed Nov. 7, 1919. Serial No. 336,355. 7 Claims. (Cl. 92—26.)



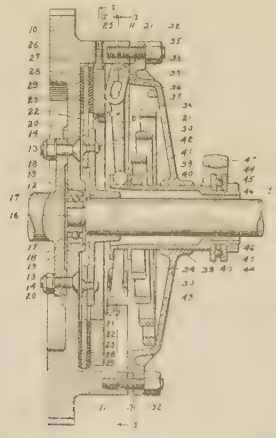
1. The combination in an apparatus for pressing the fibers of wood pulp in the manufacture of paper, of a cylinder; means for rotating the cylinder, said cylinder

having an inlet and an outlet; and a series of disks arranged to turn freely within the cylinder as the cylinder is rotated so as to press the fibers of pulp passing through the cylinder.

1,419,848. CLAMP AND BRACE FOR STAGE WINGS. GEORGE J. HANLON, Long Island City, N. Y., assignor of one-half to John A. Murray, Flushing, N. Y. Filed Mar. 18, 1921. Serial No. 453,260. 8 Claims. (Cl. 46—70.).

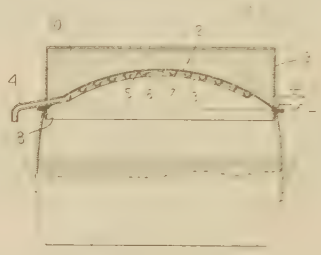
1. A clamping and bracing means for the wings of stage settings including spaced apertured portions in said wings adapted to be brought into registration when the wings are contiguously arranged, retaining devices insertable through said registered apertured portions having elements at the opposite ends thereof engageable with the wings for retaining the same against relative separation, and means adapted to be associated with the retaining devices and the stage or support for the wings for bracing and supporting the same.

1,419,849. CLUTCH. WILLIAM F. HARRINGTON, Toledo, Ohio. Filed Jan. 24, 1918. Serial No. 213,524. 4 Claims. (Cl. 192—68.)



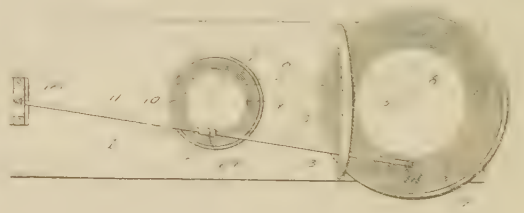
1. A device of the class described, comprising the combination of a fly wheel, provided with a rearwardly extending annular flange, a driven shaft, a clutch ring carried by said fly wheel and movable axially thereof, a clutch disc carried by said shaft and non-rotatable relative thereto, said disc having a portion interposed between said ring and said fly wheel, a cover plate slidably mounted on the flange of said fly wheel, means for adjusting said plate toward and away from said fly wheel, a plurality of levers fulcrumed on and within said plate and engaging said ring, a sleeve slidably mounted in said cover plate and engaging the inner ends of said levers, said driven shaft extending within said sleeve, and means for actuating said sleeve.

1,419,850. COVER FOR RECEPTACLES. THOMAS H. HART, Boston, Mass. Filed Aug. 4, 1919. Serial No. 315,040. 4 Claims. (Cl. 203—5.)



4. In combination, a receptacle having a cover provided with a crowned under surface, an outwardly expanding spiral gutter extending along and supported by said under surface adapted to collect liquid condensed on said under surface from vapor issuing from the contents of the receptacle, means for delivering the liquid thus collected, and means for applying a cooling agent to the upper side of said cover.

1,419,851. APPARATUS FOR MAKING PHONOGRAPH RECORDS. ROBERT HEAD, Yonkers, N. Y., assignor to The Aeolian Company, a Corporation of Connecticut. Original application Serial No. 14,404, filed Mar. 15, 1915. Divided and this application filed Apr. 11, 1919. Serial No. 289,372. 6 Claims. (Cl. 33—23.)

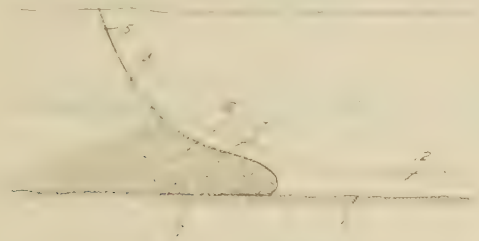


1. In combination, means for rotatably supporting a zig-zag grooved sound record and a record blank, a tracer having a rounded end wider than the groove of the sound record, a record-forming tool, and means operatively connecting the tracer and tool, said tool forming a record on said blank as the tracer follows said groove, the tracer being movable relatively to the tool whereby the tracer is yieldingly pressed into the groove so as to contact with both sides thereof and to compensate for variations in the distance between the portions of the sound record engaged by the tracer and the plane in which the tool operates.

1,419,852. DAM AND METHOD OF CONSTRUCTING SAME. HIRAM W. HIXON, New York, N. Y. Filed Nov. 1, 1921. Serial No. 512,073. 4 Claims. (Cl. 61—30.)

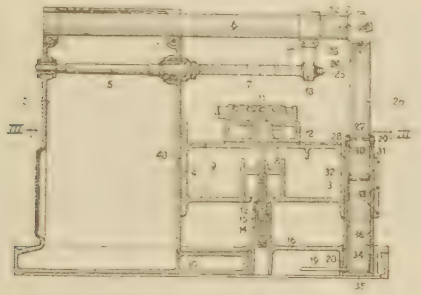
1. A dam construction including a body consisting of stones of various sizes and a net for positioning and anchoring the dam body in the bed of a stream, said net

being bellied down stream to provide a pocket for the reception of the stones upon the lower edge of which



the same will rest to anchor the same to the bottom or bed of the stream, and a suspension means for anchoring the upper edge of said net.

1,419,853. MILLING MACHINE. OSCAR HOPPE, Rorschach, Switzerland, assignor to Richard A. Kempin, Rorschach, Switzerland. Filed Jan. 22, 1921. Serial No. 439,183. 7 Claims. (Cl. 90—18.)

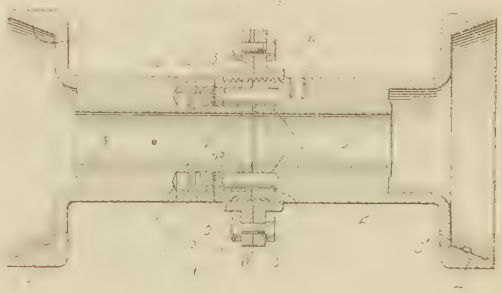


1. A milling machine comprising an upright, a base adjoining the latter, an overhanging arm adapted to be rigidly clamped to the upright, an outer support secured to the base and having an extension adapted to be rigidly secured to the overhanging arm thereby forming a rigid frame adapted to be opened to permit work to project over the outer support, and a work table bed adapted to slide on the upright and outer support.

1,419,854. VEHICLE SIGNAL. ERNEST W. [illegible], Birmingham, Ala. Filed Aug. 2, 1920. Serial No. 400,676. 1 Claim. (Cl. 116—36.)

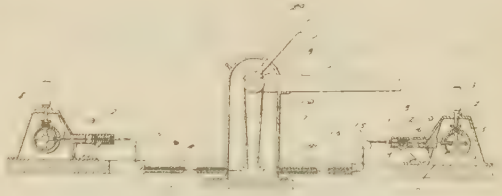
A vehicle signal comprising a mount, a signal arm pivoted adjacent its upper end to the mount and normally depending from the pivot in alignment with the mount and concealed thereby from one direction, the upper end of the mount having a stop in the upward path of the arm, said stop having a depending guard between which and the mount the arm is received and confined in its displayed position, a spring connected at opposite ends to the guard and to the upper portion of the arm to yieldably maintain the latter in its normal depending position, a stop provided upon the mount and against which the arm is normally held by the spring, a flexible operating connection secured to the upper portion of the arm, and a guide tube receiving the flexible connection.

1,419,855. SWINGING DRUM FOR HOISTING ENGINES. AUGUST J. IMHOFF, Newark, N. J., assignor to J. S. Mundy Hoisting Engine Co., a Corporation of New Jersey. Filed Aug. 11, 1921. Serial No. 491,426. 8 Claims. (Cl. 254—185.)



1. A drum in two axially-alined sections, the adjacent ends thereof having longitudinally-extending recesses, an annular series thereof being provided in one drum-section and two of such recesses in the other drum-section, said two recesses having, each, at its inner end, an offset, angular portion extending through the periphery of said drum-section, and said two recesses being adapted to register with two of the recesses in said annular series, two bolts slidably mounted in the two pairs of registering recesses, a plug removably seated in each of said angular, offset portions of said two recesses and bearing against said bolts for normally holding them against longitudinal movement, and means for normally holding said drum-sections against relative longitudinal movement.

1,419,856. RAILROAD GATE. BONAVENTURO IZZO, Paterson, N. J. Filed Aug. 23, 1921. Serial No. 494,731. 3 Claims. (Cl. 246—293.)

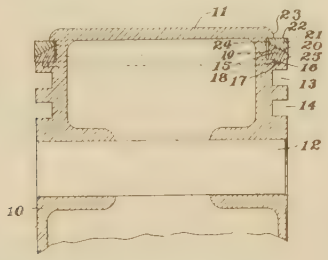


1. In combination with a railroad crossing gate, a rotatable member placed adjacent the track, one on each side of the crossing, means on the train for engaging said members to rotate the same, means for converting the motion into a reciprocating motion, means for lowering the gate by such means when the first member is engaged by the train and for raising the gate when the second member is engaged by the train and signal means on the train actuated by the engagement of the part on the train with the rotary members.

1,419,857. PISTON AND PISTON RING. HARRY B. JOHNSTON, Seattle, Wash. Filed Aug. 9, 1920. Serial No. 402,242. 8 Claims. (Cl. 74—109.)

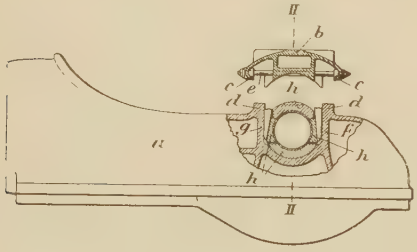
1. In combination, a piston having a groove and a piston ring in the groove, the ring comprising a plurality of

ring sections, one of the ring sections having an inclined surface, another of the ring sections having an inclined surface cooperating with the first mentioned inclined surface, one of the sections having interlocking means



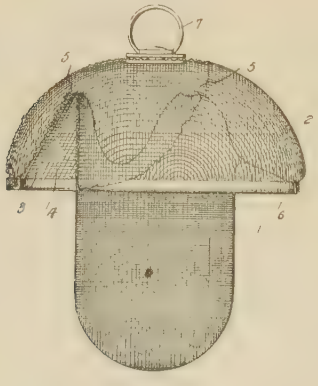
coacting with a wall of the groove to limit the movement of the ring section therein, the piston being cut away between the ring and the cylinder end whereby the ring is exposed to the pressure at the end of the cylinder.

1,419,858. FRAME BEAM FOR HORIZONTAL ENGINES. EMIL KÄGI, Winterthur, Switzerland. Filed Dec. 16, 1919. Serial No. 345,205. 3 Claims. (Cl. 64—10.)



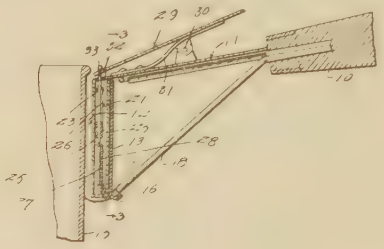
1. In a crank shaft bearing construction for horizontal engines and the like, the combination with an engine frame beam, of a housing for said bearing, a bearing cover or cap adapted to fit over and embrace the open portion of said housing, and a tie rod arrangement connecting the opposite ends of said cover and also adapted to tie together the open portions of said housing and clamp said cover in operative position.

1,419,859. HANGING FLYTRAP. EARL A. KECKLER, Brilliant, Ohio. Filed Mar. 7, 1921. Serial No. 450,381. 3 Claims. (Cl. 43—118.)



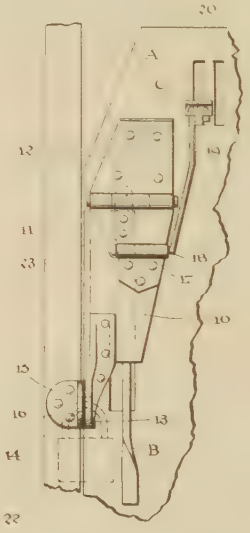
1. An insect trap of the character specified, comprising a body of approximately conical form, a mushroom shaped top having its central portion extending over and its outer portion overhanging and surrounding the upper portion of the body, and an element between the upper portion of the body and the overhanging and surrounding portion of the top and crimped to form a plurality of funnel shaped passages which are open at their apices.

1,419,860. DETACHABLE HANDLE FOR VESSELS. JOHN J. KIRBY, Susanville, Calif. Filed June 2, 1921. Serial No. 474,514. 5 Claims. (Cl. 53—6.)



1. A detachable handle for cooking vessels having a keeper secured to and carried by the vessel, a grip portion provided with a terminal depending bearing member for engagement with said keeper, transversely movable locking members mounted upon the bearing member for engagement with openings in the end walls of the keeper, a plunger operatively connected with said locking members for effecting the extension and retraction thereof, and an operating lever connected with the plunger and terminally arranged within convenient reach of the handle grip.

1,419,861. LOCK FOR MOTOR VEHICLES. JOHN KLASNICH, Universal, Ind. Filed July 30, 1920. Serial No. 400,060. 3 Claims. (Cl. 70—126.)

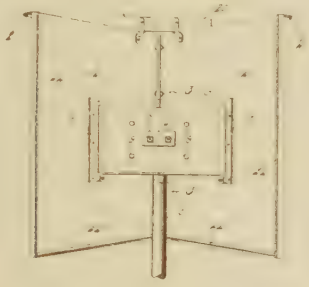


1. An automobile locking device comprising a pivoted member attached to the floor board of the car and adapted to overlie the brake control lever when the latter is in an active position, means for locking said member to a fixed part of the car, an element designed to engage the clutch control pedal to prevent movement of the latter, said element being pivoted on said member and associated with the latter for movement simultaneously therewith to an active or inactive position.

1,419,862. POROUS CHARGE FOR CONTAINERS SERVING FOR STORAGE OF EXPLOSIVE GASES DISSOLVED IN LIQUIDS, AS, FOR INSTANCE, ACETYLENE. EMIL KLEBERT, Karlshorst, near Berlin, Germany, assignor to Julius Pintsch Akt.-Ges., Berlin, Germany. Filed Jan. 3, 1920. Serial No. 349,324. 1 Claim. (Cl. 23—29.)

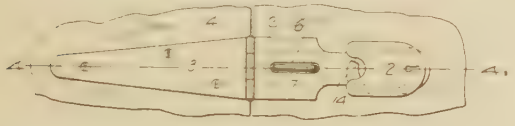
A porous charge for acetylene gas containers, consisting of a mixture of crushed charcoal and cork.

1,419,863. SIGN. AMBROSE E. KLINE, Brookville, Pa. Filed Nov. 22, 1921. Serial No. 517,028. 2 Claims. (Cl. 40—145.)



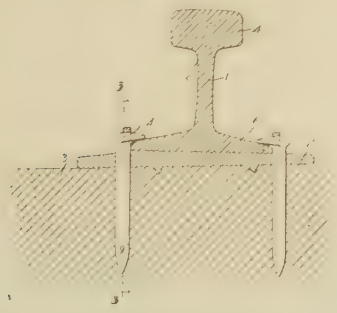
1. In combination, a standard, two sign members arranged to form a V, a reinforcing member connecting the sign members, said reinforcing member terminating to provide flanges, means carried by the side members for receiving said flanges, a bracket carried by the reinforcing members and embracing said standard, and U-bolts passed through said bracket for locking said parts together.

1,419,864. FASTENING. EMMA KNAPP, Denver, Colo., assignor to William F. Knapp, Denver, Colo. Filed Aug. 26, 1919. Serial No. 319,892. 4 Claims. (Cl. 70—5.)



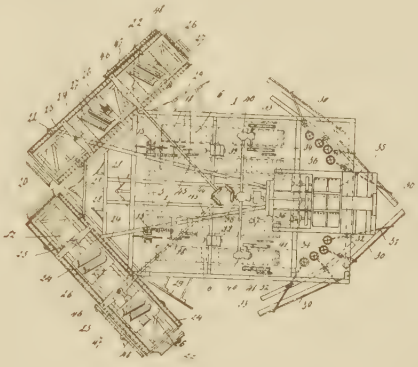
3. A fastening comprising a hasp and a staple, a lock slidably mounted upon the hasp and having a locking-member adapted to pass through the staple, and a spring yieldingly holding the lock in its normal position.

1,419,865. RAIL-FASTENING MEANS. SAMUEL BOOTH KULL, Bridgeport, Conn. Filed June 18, 1921, Serial No. 478,545. Renewed May 9, 1922. Serial No. 559,591. 1 Claim. (Cl. 238—294.)



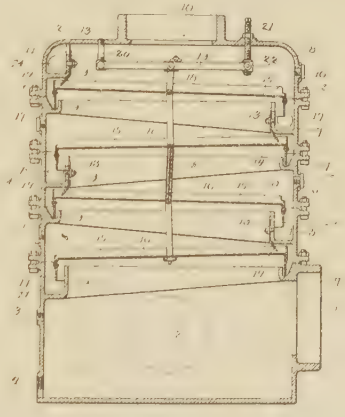
A rail fastening device which comprises a plate disposed beneath the rail, a tie on which the plate is disposed, said plate having an aperture for a spike and a pair of apertures on each side of the aperture receiving the spike, and a strap extending over the top of the spike, the ends of the strap extending through said apertures adjacent the spike and being bent over beneath the plate to hold the spike against the rail.

1,419,866. LEVELING AND PLOWING MACHINE. SAMUEL L. G. KNOX, San Rafael, Calif. Filed Nov. 24, 1920. Serial No. 426,261. 7 Claims. (Cl. 37—24.)



1. In a machine of the kind described, the combination of a self-propelled carriage adapted to travel and be steered over loosely leveled soil, a main frame adjustably supported by said carriage, soil-loosening means carried by the main frame in advance of the carriage, means carried by the main frame in rear of the soil loosening means and in advance of and transversely to the longitudinal axis of the carriage for transverse displacement of the loosened soil, and means for independently adjusting the inclination and elevation of the plane of the main frame relative to the plane of the carriage, whereby to control the angle and depth of operation of the soil loosening means.

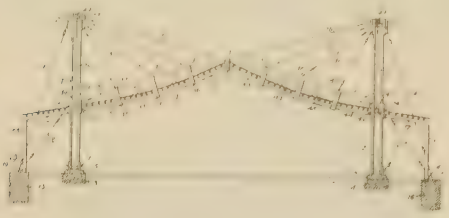
1,419,867. SCRUBBER. WILBUR G. LAIRD, New York, N. Y., assignor to Henry L. Doherty, New York, N. Y. Filed Sept. 6, 1916, Serial No. 118,649. Renewed Mar. 14, 1921. Serial No. 452,229. 9 Claims. (Cl. 261—113.)



7. In a device for contacting gas with liquid, a casing having means for introducing gas at the bottom and withdrawing it at the top; a plurality of perforated partitions supported on and spanning said casing, the perforations in said partitions having an area which will prevent a liquid from passing downwardly therethrough while gas is passing upwardly therethrough; means for adjusting the inclination of said partitions; means for

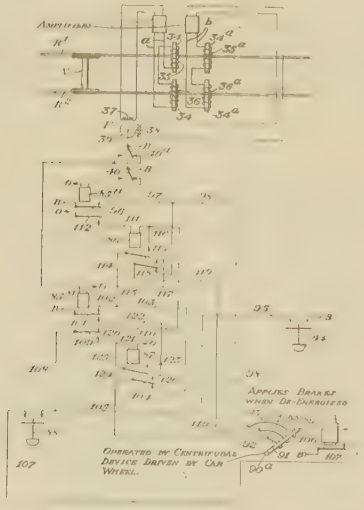
preventing the passage of gas between the edges of said partitions and the walls of said casing; and means for leading liquid downwardly from one partition and distributing it along one edge of the next lower partition.

1,419,868. FRAMEWORK OF BUILDINGS. BENJAMIN W. LEVITAN, New York, N. Y. Filed July 25, 1918. Serial No. 246,659. 4 Claims. (Cl. 189—1.5.)



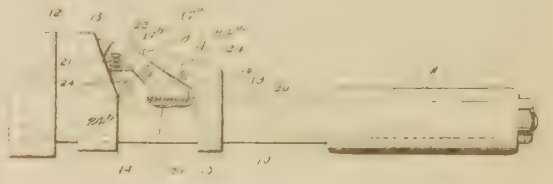
1. In framework forming part of a building and including a series of frame-units each comprising a pair of rigid uprights to which are attached stays that extend outward and downward therefrom, the combination with the uprights of cross-stays by which the uprights are tied together, and a pair of rafters, the cross-stays extending from the uprights inward and downward and lengthwise of the rafters and being attached to the uprights close to the lower ends of the rafters, and the pair of rafters and cross-stays being fastened together at the upper ends of the rafters and where the stays cross and at other places between the upper and lower ends of the rafters, and the cross-stays being connected to the uprights by short stays extending inward and downward from the uprights.

1,419,869. RAILWAY TRAFFIC-CONTROLLING APPARATUS. LLOYD V. LEWIS, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Sept. 11, 1919. Serial No. 323,168. 24 Claims. (Cl. 246—34.)



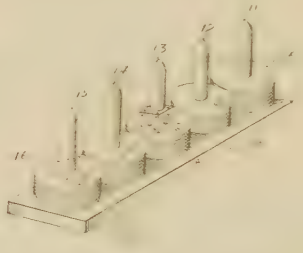
4. Railway traffic controlling apparatus comprising a trackway divided into blocks, signals for the blocks each adapted to indicate stop, caution and proceed, a vehicle, governing means on said vehicle controlled from the trackway and set into operation on passing a caution signal for causing an automatic application of the brakes, and manually controllable apparatus also on said vehicle for suppressing said automatic brake application and imposing a medium speed limit provided said apparatus is set into operation before passing the caution signal.

1,419,870. WRENCH. GEORGE A. LEXANDER, Belmont, Mass. Filed Aug. 25, 1920. Serial No. 405,788. 1 Claim. (Cl. 81—140.)



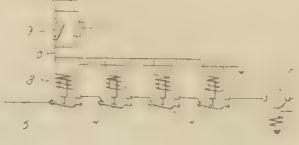
A wrench having jaws, a shank extending from one jaw, the other jaw being movable along the shank, the movable jaw having a recess opening at one side and mounting portions on opposite sides of the recess to contact with said shank, a pawl in said recess to cooperate with the shank engageable with said portions to limit its movement in opposite directions, said movable jaw having a substantially inclined surface, a spring between one extremity of the operating end of the pawl and one of said portions to urge the operating end of the pawl beyond said surface, said end having an outer surface substantially merging with said surface, the opposite extremity of said end being curved and the adjacent mounting portion being correspondingly curved, a closure plate over said recess, pawl and spring, and removable securing members common to said plate and said portions.

1,419,871. GAME COUNTER. DONALD MCDONALD, Louisville, Ky. Filed May 10, 1921. Serial No. 468,262. 5 Claims. (Cl. 235—90.)



2. A game counter comprising a rack having a base, a multiplicity of posts projecting from said base, a series of exchangeable counting chips centrally apertured for reception by said posts, said chips being in sets of different values, each chip having its value indicated in figures thereon and a cube adapted to be positioned upon any of said posts, said cube being provided with dots on its sides whereby different points may be indicated by properly positioning the said cube.

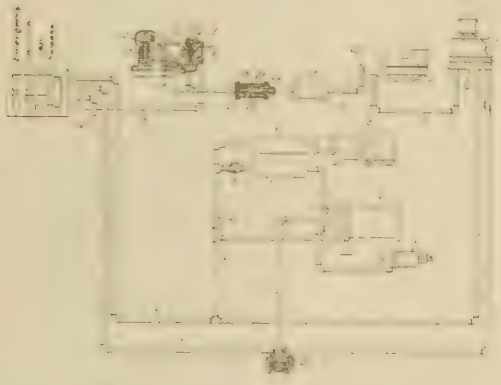
1,419,872. CONTROL OF ELECTROMAGNETIC SWITCHES. ROBERT H. MCLAIN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 29, 1917. Serial No. 198,944. 5 Claims. (Cl. 175—294.)



5. The combination with an electric motor, of a plurality of contactors in series relation with said motor and with each other, electromagnetic windings for operating said contactors, a control circuit having a master switch for energizing and deenergizing said windings, and a con-

denser arranged in parallel with said master switch whereby a demagnetizing current flows in said windings when the master switch is opened to force the substantially simultaneous opening of said contactors.

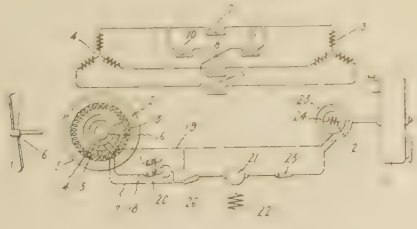
1,419,873. SAFETY CAR CONTROL AND AIR-BRAKE EQUIPMENT. GEORGE MACLOSKIE and CHARLES A. IVES, Erie, Pa., assignors to General Electric Company, a Corporation of New York. Filed July 7, 1921. Serial No. 483,094. 6 Claims. (Cl. 303—6.)



1. In a safety car control and air brake equipment, the combination with an emergency line, a manually controlled handle, and a circuit breaker operating device arranged to control the circuit of the car motors, of a valve device actuated by the said handle when released to establish communication between said emergency line and said circuit breaker operating device, and a motorman's brake valve adapted to control said communication between said emergency line and said circuit breaker operating device.

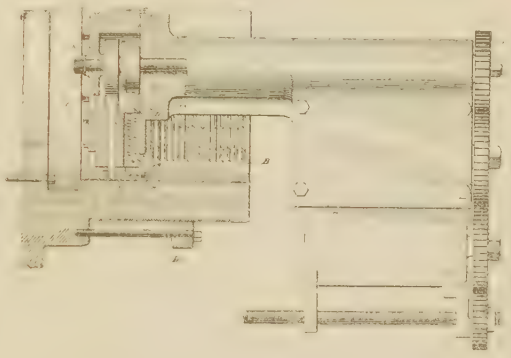
6. In a safety car control and air brake equipment, the combination with an emergency line, a manually controlled handle, and a circuit breaker operating device arranged to control the circuit of the car motors, of a valve device actuated by the said handle when released to establish communication between said emergency line and said circuit breaker operating device, and a motorman's brake valve adapted to open said communication between said emergency line and said circuit breaker operating device when in its release and lap positions and to close said communication in another one of its positions.

1,419,874. ELECTRIC SHIP PROPULSION. CAMPBELL MACMILLAN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 11, 1920. Serial No. 357,802 4 Claims. (Cl. 172—8.)



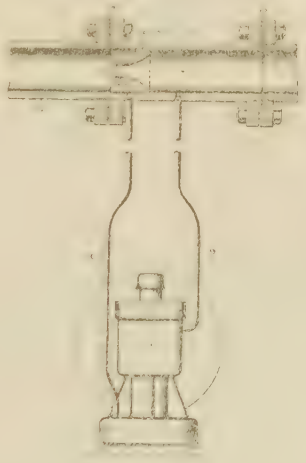
4. An electric ship propulsion system wherein an alternating current motor is arranged to drive a propeller and wherein a synchronous generator is arranged to supply curent to operate the propeller driving motor, characterized by the fact that the motor secondary element is provided with a plurality of windings, one of which is of the high resistance squirrel cage type arranged adjacent the air gap in a number of slots greater than the number of slots in the stator, and the other of which is a definite winding arranged beneath the squirrel cage winding in one half the number of slots, and by the fact that means are provided for connecting said low resistance winding to act either as a secondary winding for induction motor operation or as an exciting winding for synchronous operation.

1,419,875. STEP-CUTTING DEVICE. CHARLES H. MADSEN, Troy, N. Y. Filed Oct. 20, 1919. Serial No. 332,087. 6 Claims. (Cl. 82—19.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



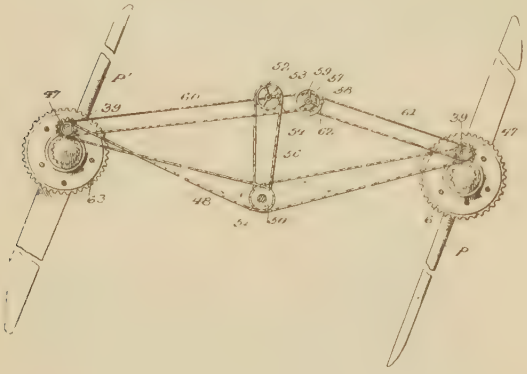
1. A step threading device comprising a hollow casing, a rotatable shaft projecting therethrough, a cam carried by said shaft and disposed interiorly of the casing, a reciprocable tool-holder projecting into said casing, and means for maintaining said tool-holder in constant contact with said cam.

1,419,876. FLOW TUBE. HAROLD H. MAPELSDEN and CHARLES F. BULLOCK, Schenectady, N. Y., assignors to General Electric Company, a Corporation of New York. Filed Apr. 7, 1920. Serial No. 371,918. 3 Claims. (Cl. 73—167.)



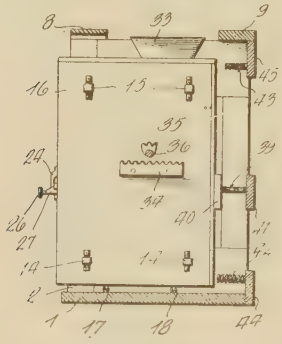
1. A flow tube comprising a short section of straight pipe counterbored from one end to form a shoulder, and a nozzle fixed in said pipe section and pointing downstream, said nozzle having a flange which engages said shoulder to position the nozzle in the pipe section, and being positioned some distance from the up-stream end of the tube whereby a length of accurately dimensioned pipe section is provided in advance of the nozzle.

1,419,877. AEROPLANE PROPELLER. ALFRED MARTEL, Jr., Mountain View, Calif. Filed May 31, 1921. Serial No. 473,690. 12 Claims. (Cl. 170—163.)



1. A propeller comprising a hub mounted for rotation, shafts journaled in the hub and extending diametrically of the same, blades carried by said shafts, arms fixed to said shafts, means engageable with the arms for effecting oscillatory movement thereof when the hub is rotated to cause a feathering of the blades, said means being adjustable to increase or decrease the oscillatory movement of the arms to vary the feathering action of the blades, and manually operable means for actuating the same.

1,419,878. COIN SEPARATOR. JESSE W. MARTIN, Friendship, Tenn., assignor of one-half to Silas Martin, Friendship, Tenn. Filed Apr. 18, 1921. Serial No. 462,311. 6 Claims. (Cl. 133—3.)

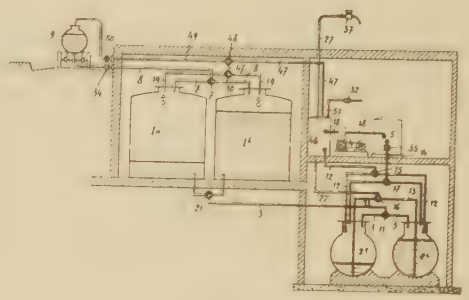


1. A coin separator comprising a framework, a coin receiving cabinet mounted for reciprocating and oscillating movement in the cabinet, means to move the cabinet in one direction in the framework, resilient means for drawing the cabinet in the opposite direction, and means for abruptly checking the movement of the cabinet in the latter direction and for causing the oscillation of the cabinet, substantially as described.

1,419,879. METHOD OF MAKING TIRES. MELVON A. MARQUETTE, Chicopee Falls, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Original application filed Apr. 21, 1920, Serial No. 375,471. Divided and this application filed Jan. 5, 1922. Serial No. 527,233. 7 Claims. (Cl. 18—53.)

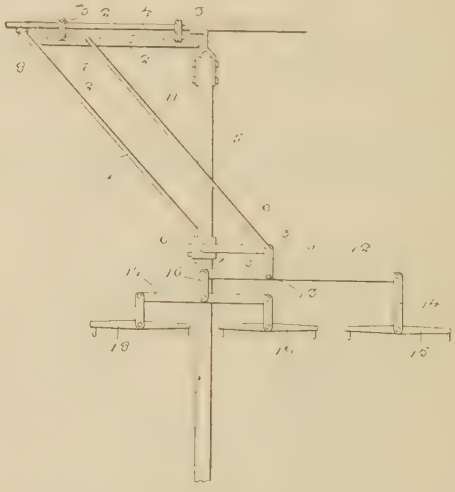
1. The method of making tire casings comprising the application of molding pressure on the casings while the outer portion is softened by heat and the fabric portion of the casing is bonded together by cold rubber, and vulcanizing the tires by heat applied to the whole casing after the latter has been formed under the molding pressure.

1,419,880. SAFETY APPARATUS FOR THE STORAGE AND DISTRIBUTION OF INFLAMMABLE AND OTHER LIQUIDS WITHIN TANKS AND PIPING OUT OF CONTACT WITH THE AIR. PIERRE ANDRÉ PAUL VICTOR MAUCLÈRE, Paris, France. Filed Nov. 15, 1920. Serial No. 424,209. 7 Claims. (Cl. 221—74.)



1. In an apparatus of the character described, the combination with a storage tank and means for connecting it with a source of supply, of a plurality of gauging devices, means to connect first one and then another of the gauging devices with the tank, a delivery conduit, means in the latter for connecting any one of the gauging devices therewith, an expansion tank, conduits leading from the gauging devices to the expansion tank, means in the last named conduits to connect anyone of the gauging devices with the expansion tank, a pressure reservoir, a conduit leading from the latter to the gauging devices, and means for connecting any one of the latter to the pressure reservoir.

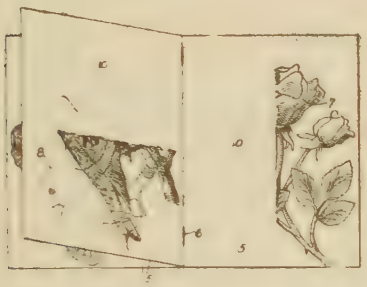
1,419,881. DRAFT EQUALIZER. ARTHUR G. MEADOR, Clovis, N. Mex. Filed May 8, 1920. Serial No. 379,865. 1 Claim. (Cl. 278—15.)



In combination with a side draft implement having a tongue pole secured thereto; of a bracket on the tongue, an angularly disposed rod carried by the bracket and secured to the implement, an apertured bar removably secured to the implement between the tongue and rod, an arm pivoted on the bracket, a rod having angle ends, one of which is received in one of the apertures of the bar

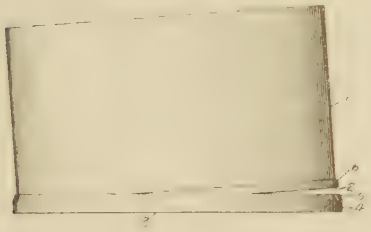
and the other passing through the outer end of the arm, a link resting on said outer end of the bar and through which the last mentioned angle end of the rod passes, means on the said end of the rod securing the same on the arm, a draw bar pivotally connected off of its center to the outer end of the link, and single and double trees connected to the draw bar.

1,419,882. EDUCATIONAL DEVICE. J NICHOLAS MEYERS, Philadelphia, Pa. Filed Mar. 16, 1921. Serial No. 452,885. 3 Claims. (Cl. 35—12.)



1. In a device of the character described, a sheet provided upon one of its sides with a section of a representation to be copied, the remainder of the representation being shown upon the opposite side of the sheet, as and for the purpose set forth.

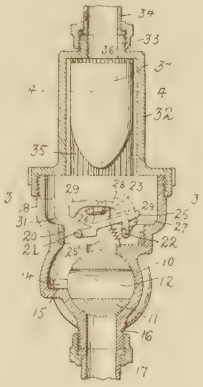
1,419,883. CONTAINER. HENRY MILLER, San Francisco, Calif., assignor to American Can Company, San Francisco, Calif., a Corporation of New Jersey. Filed Oct. 4, 1920. Serial No. 414,534. 2 Claims. (Cl. 220—29.)



1. A can body having an end united thereto by a double seam forming an outwardly extending rigid seam bead which is braced by said end, and combined therewith an outer attachable and removable slip cover having a depending flange terminating in an inwardly turned edge adapted to be sprung outward by the edge of said bead when said outer cover is applied thereon and then to spring inward and engage removably under said bead.

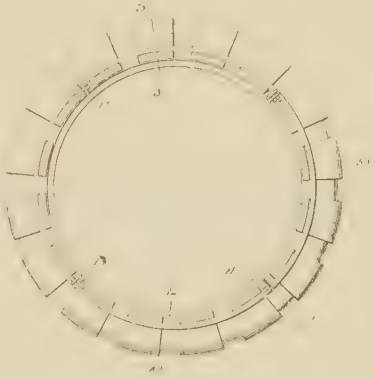
1,419,884. AUTOMATIC GAS LOCK. RUDOLPH MILLER, St. Michael, Pa., assignor of one-half to Lorenz Klagg, St. Michael, Pa. Filed Oct. 1, 1921. Serial No. 504,721. 3 Claims. (Cl. 67—115.)

1. A device of the class described comprising a valve including a rotative perforated plug having an outwardly directed stop, a rock shaft carrying a lock lever having an intermediate stop shoulder to engage the plug stop to hold the plug in open position, another rock shaft carrying a trip means to release said lock lever, a



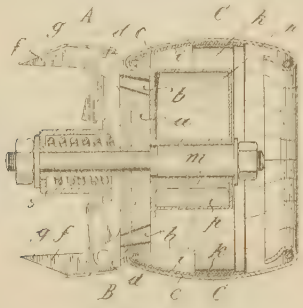
floating member adapted to be maintained in elevated position by the normal gas pressure, and adapted to fall by gravity in event of the abnormal reduction of the gas pressure and actuate the releasing means and permit the plug to move into closed position.

1,419,885. TIRE ATTACHMENT. SAM J. MOSS, Dennison, Ohio. Filed June 17, 1921. Serial No. 478,410. 1 Claim. (Cl. 152—16.)



A combined tire protector and anti-skid device including a plurality of old tire sections arranged to straddle the tread of the tire, metallic bands arranged at each side of the tire, each band being made up of a plurality of curved sections terminating to provide offset extremities, the offset extremities of the respective sections having threaded openings, adjustable elements passed through said openings for adjustably securing said sections together, and each section having a plurality of elongated slots adapted to receive the beads of the tire section as and for the purpose specified.

1,419,886. PIPE CLEANER. WILHELM MÜLLER, Bernburg, Germany. Filed July 9, 1920. Serial No. 395,128. 7 Claims. (Cl. 15—104.14.)

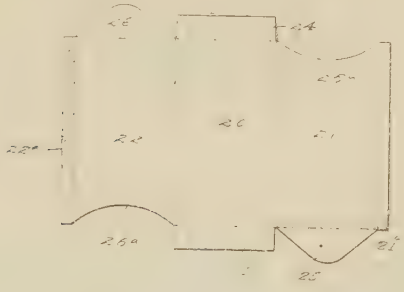


2. In a device of the kind described in combination, a head having, a circular row of orifices therein and a counter-weighted shutter adapted to automatically close those orifices which are uppermost for the time being.

1,419,887. SHAVING BRUSH. CHARLES G. MYERS, Philadelphia, Pa. Filed Dec. 13, 1919. Serial No. 344,604. 2 Claims. (Cl. 15—184.)

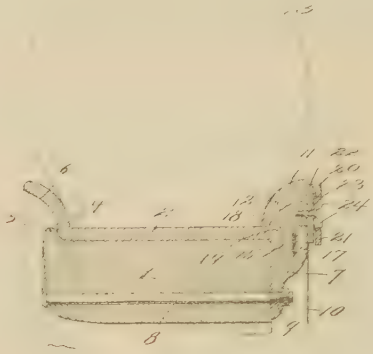
1. The combination of a hollow handle section having a screw thread at one end and having spring tongues, with a brush section having a screw-threaded head; an annular flange on the threaded portion of the brush section, the head being adapted to the threaded portion of the handle section when the brush is being used, the tongues engaging the flange when the brush section is inserted in the handle section.

1,419,888. DOUBLE ENVELOPE. JULES M. NESS, Vermilion, S. Dak. Filed Feb. 18, 1921. Serial No. 445,956. 3 Claims. (Cl. 229—72.)



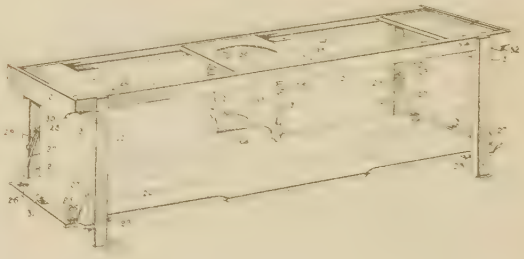
1. A double pocket envelope consisting of a blank having an intermediate and terminal coextensive folds and gummed fastening flaps at the remote edges of the terminal folds, the intermediate fold being provided at opposite ends with closing flaps and each of the terminal folds being provided at one end with a closing flap.

1,419,889. WHEEL RIM. JAMES S. NICHOLS, STERLING T. BILLINGSLY, and HOWARD EVAN SCOGGINS, Atlanta, Ga. Filed Sept. 21, 1920. Serial No. 411,789. 10 Claims. (Cl. 152—21.)



1. A wheel rim comprising a body having a tire-retaining flange at one edge and flangeless at its opposite edge to provide an unobstructed passage for the tire, a separate tire-retaining flange adapted to fit over the flangeless edge of the rim, and a set of circumferentially-spaced keys movable radially inwardly in a plane parallel to the plane of the rim to cooperate with said separate flange to secure the latter in operative position on the rim, said separate flange when in operative position on the rim acting to lock said keys in securing position.

1,419,890. BABY WALKER. RAYMOND NOEL, Sr., Dubois, Pa. Filed May 8, 1919. Serial No. 295,718. 6 Claims. (Cl. 155—23.)

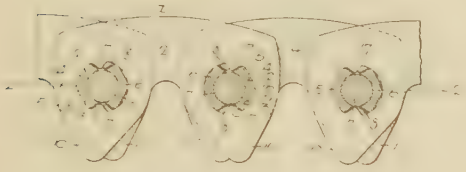


1. A knock-down baby walker including a top frame, legs adjacent the ends of the frame, means permanently connecting said legs near their upper ends with said frame, said means permitting a sliding and rockable movement of the legs relatively to the frame in erecting the structure or giving it a knocked-down form, and a floor carried by said legs and hingedly connected with the latter.

1,419,891. CHAIN. FRANK J. OAKES, Indianapolis, Ind., assignor to Link-Belt Company, Chicago, Ill., a Corporation of Illinois. Filed June 1, 1921. Serial No. 474,073. 4 Claims. (Cl. 74—32.)

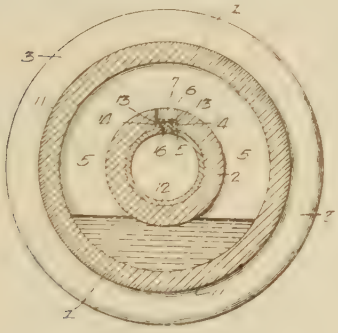
1. The combination of two links, each having a pivot opening therein; a bushing mounted in each link; and

a pivot pin located between the bushings, each bushing having two flat surfaces, one at an angle to the other,



bearing against corresponding surfaces in their respective links in order to prevent a rotary movement of the bushing in its link.

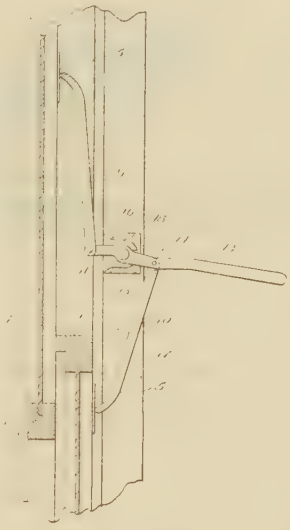
1,419,892. BUSHING FOR CARRIER ROLLERS, ETC. FRANK J. OAKES, Indianapolis, Ind., assignor to Link-Belt Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 16, 1922. Serial No. 529,556. 3 Claims. (Cl. 64—26.)



2. The combination of a hollow roller, or wheel, providing a reservoir for lubricant; a bore extending through the hub of the roller, or wheel; a slot extending the full width of the hub and communicating with the bore and with the interior reservoir of the roller, or wheel; a hardened sheet metal bushing flanged at the ends and adapted to be forced into the bore and forming the lining thereof, the two flanged ends being spaced apart and bearing against the walls of the slot; and a strip of material located in the space between the flanges of the bushing and through which the lubricant is transmitted from the reservoir to the surface of a spindle on which the roller, or wheel, is mounted.

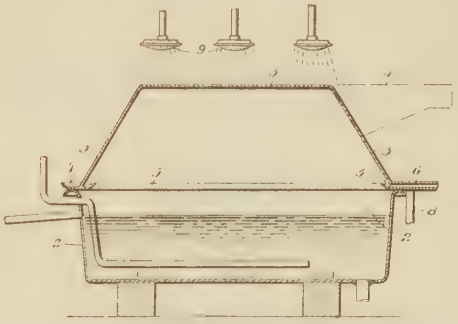
1,419,893. WINDOW ADJUSTER. AXEL OLFORT, Chicago, Ill. Filed Apr. 5, 1921. Serial No. 458,653. 4 Claims. (Cl. 268—4.)

1. In a window adjuster, the combination with a pair of slidable sash of a pivotally mounted hand lever, arms pivotally connected to said hand lever upon opposite sides of its pivot, the pivotal connections between said arms and said lever being positioned upon opposite sides of the line bisecting the axis of pivotal movement of the lever whereby said sash will be locked against movement



when said hand lever is positioned at either terminal of its movement.

1,419,894. STILL. SAMUEL E. OLIVER, Vancouver, British Columbia, Canada. Filed May 6, 1920. Serial No. 379,352. 5 Claims. (Cl. 203—5.)

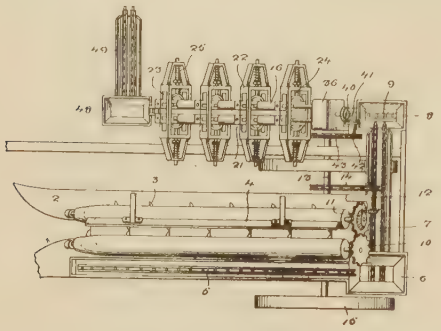


1. In a still, a cover, said cover comprising a dome-like body having a distillate collection gutter at the lower end of said body within the cover and a cooling liquid collecting gutter at the lower end of said body and outside of the same, offtake ducts for delivering the material from said gutters, and means for delivering a spray of cooling medium at the top of said body on the peak thereof.

1,419,895. CORN-HUSKING MACHINE. CHARLES C. O'NEILL and JOHN J. HYNES, Anncar, Nebr. Filed Oct. 7, 1921. Serial No. 506,151. 10 Claims. (Cl. 130—5.)

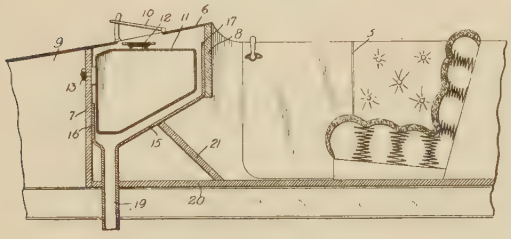
1. A husking apparatus comprising a plurality of husking rollers, means for conveying the ears of corn between

the rollers, means for adjustably connecting the rollers together so that they can conform themselves to the shapes



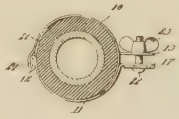
and sizes of the ears passing between them and means for rotating the rollers.

1,419,896. FUEL TANK. VICTOR W. PAGÉ, New York, N. Y. Filed Apr. 22, 1921. Serial No. 463,735. 3 Claims. (Cl. 280—5.)



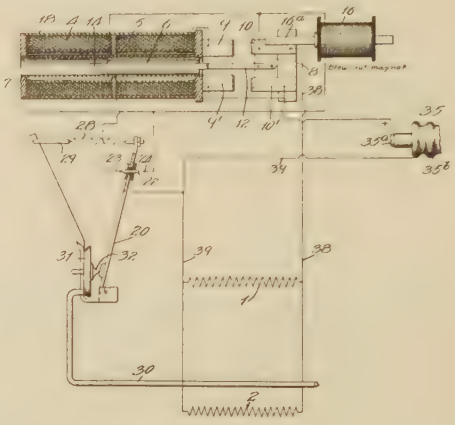
1. In combination with the fuel tank of a vehicle, means for collecting the overflow of said tank and conveying the same to a point exterior of the vehicle.

1,419,897. HOSE CLAMP. LAFAYETTE PALMER, Harrisburg, Pa. Filed Feb. 28, 1922. Serial No. 540,028. 1 Claim. (Cl. 24—19.)



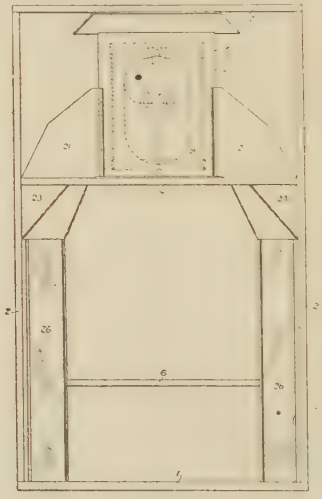
A clamping device of the character described comprising a pair of sections of substantially semi-circular formation, one section being formed at one end with an inwardly bent flange and having its other end split to define a pair of outer tongues and an inner tongue bent outwardly with respect to the sections, said inner tongue being formed with an elongated hole, the other section having one end formed with an elongated relatively narrow central tongue and being formed outwardly of said narrow tongue with hook-like flanges cooperating with said first named flange for constituting a connection between the sections, and the other end of said second named section being formed with an elongated reduced tongue bent upon itself to provide reinforcement and formed with a hole, said spaced tongues on the first named section engaging against the inner periphery of the second named section and the central tongue on the second named section engaging against the inner periphery of the first named section, and a clamping bolt passing through the free ends of both of said sections.

1,419,898. ELECTRIC SWITCH MECHANISM. WALTER RICHMOND, Chicago, Ill., assignor to John Elliott Jenkins, Chicago, Ill. Original application filed Oct. 24, 1911, Serial No. 656,430. Divided and this application filed Mar. 17, 1917. Serial No. 155,424. 4 Claims. (Cl. 200—102.)



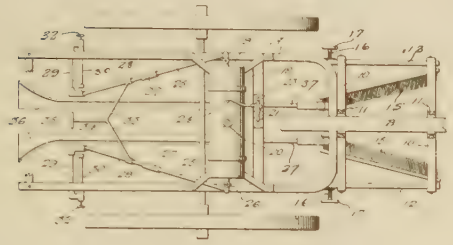
2. An electro-magnetic switch having a plurality of sets of contacts, a switch blade adapted to contact with one set or another of said contacts, a magnetic core connected to said blade, a plurality of energizing coils operatively related to said core, one set of contacts being located within the magnetic influence of the adjacent coil, and a blow out magnet having its magnetic field embracing the other set of contacts and being connected in shunt to the distant coil.

1,419,899. ILLUMINATED APPARATUS FOR DISPLAYING AND ADVERTISING PURPOSES. WEBSTER JOHN BEVILLE, London, England. Filed Feb. 8, 1922. Serial No. 534,980. 6 Claims. (Cl. 240—2.)



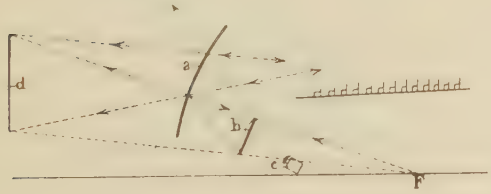
1. An illuminated apparatus for displaying an object comprising a stage-like chamber open at its front, a compartment in said chamber hidden from external observation and separated from the rest of the chamber by a partition, a reflector supported in position in said compartment with its axis at an angle to the normal, a lamp projecting into said reflector, an opening at the rear of said partition for the passage of light into said chamber, and a rotary drum surrounding said reflector, substantially as described.

1,419,900. INSECT DESTROYER. JOHN L. FRANKS, Winters, Tex. Filed Jan. 29, 1921. Serial No. 441,100. 3 Claims. (Cl. 43—144.)



1. An insect destroyer designed as an attachment to a wheeled vehicle and comprising brush members adapted to brush the insects from the plant stalks, a supporting platform carried by the vehicle, a tank mounted on the platform and adapted to contain fuel, a pump for placing said fuel under pressure, outlet pipes leading from the tank, other pipes swivelly connected with the lower ends of said outlet pipes, burners carried by said last named pipes, a handle member connected with said last named pipes whereby to vary the position of the burners, and spaced shields between the burners adapted to pass along the sides of a row of plants.

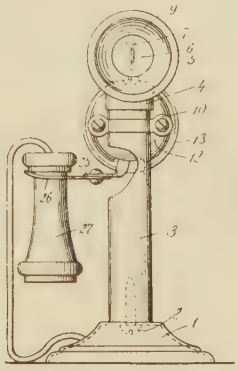
1,419,901. DEVICE TO OBTAIN STEREOSCOPIC EFFECTS IN CINEMATOGRAPHIC PROJECTIONS. FREDERIC LEHNHOFF-WYLD, Paris, France. Filed Jan. 21, 1920. Serial No. 353,026. 1 Claim. (Cl. 88—24.)



A device for obtaining stereoscopic effects in cinematographic projections comprising in combination, a spherical inclined mirror, a screen arranged between the focus and the center of the mirror, a projecting apparatus, said screen being suitably inclined to reflect on the concave mirror the image projected by said apparatus and to obtain a true and large and not reversed image of the scene projected on the screen, said screen having a convex surface to correct the deformations of the horizontal lines and other distortions of the image projected.

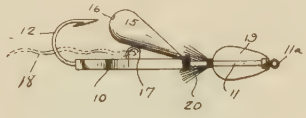
1,419,902. TOY TELEPHONE. CLIFFORD M. WATROUS, East Hampton, Conn., assignor to Gong Bell Manufacturing Company, East Hampton, Conn., a Corporation of Connecticut. Filed June 11, 1921. Serial No. 476,641. 7 Claims. (Cl. 46—46.)

1. A toy telephone consisting of a standard, receiver and transmitter in combination with a signaling device operatively mounted with respect to the standard and comprising a gong, a mechanically operated gear train and



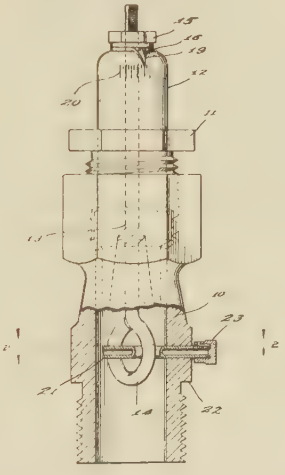
striker for sounding the gong, and a lever terminating in a receiver hook for operating the gear train to sound the gong.

1,419,903. FISHING HOOK. RAYMOND W. BAILEY, Akron, Ohio. Filed June 4, 1921. Serial No. 474,957. 2 Claims. (Cl. 43—39.)



1. In a device of the type described, a hook, a mounting therefor, a shiftable bulb connected to the mounting and adapted to contain a fluid, a yieldable bait-holding means normally holding said bulb in the path of said hook, the mounting of said bulb permitting shifting thereof out of the path of the hook when the hook is struck.

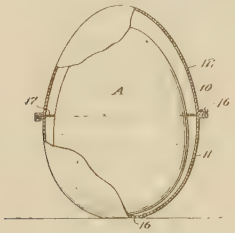
1,419,904. SPARK PLUG. ROBERT C. BERRY, Indianapolis, Ind., assignor to Daniel W. Ritter, Indianapolis, Ind. Filed July 9, 1919. Serial No. 309,693. 8 Claims. (Cl. 123—169.)



1. In a spark plug, the combination of suitable electrode-supporting means including a shell and a porcelain tube, a rod mounted in and positively axially clamped in said porcelain tube but rotatably adjustable therein about its

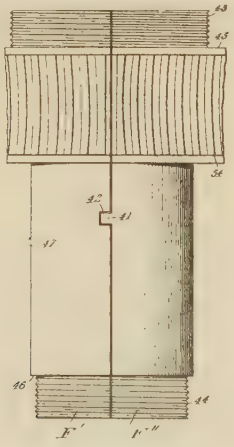
axis, said rod at its inner end being provided with an offset portion which constitutes one of the electrodes, and a second electrode mounted on said electro-supporting means and co-operating with the first electrode to form the spark gap, said second electrode extending transversely of said rod past the axis thereof, the distance between said two electrodes being adjustable by such rotative adjustment of such rod.

1,419,905. EGG PROTECTOR. FREDERICK HOSTETTER, Brooklyn, N. Y., assignor of one-half to Gustaf Petterson, Brooklyn, N. Y. Filed Dec. 14, 1921. Serial No. 522,219. 3 Claims. (Cl. 217—29.)



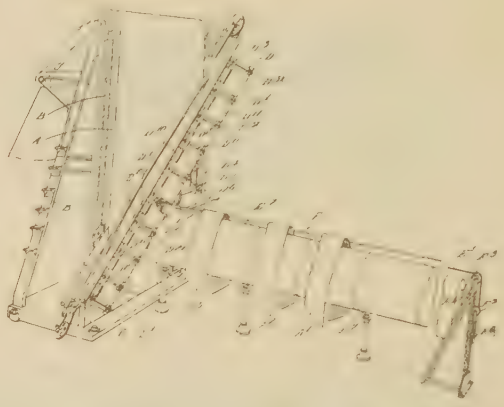
1. An egg protector including a two part hollow shell with the parts coacting to provide an egg-shape container, the meeting edges of each of said parts provided with an outturned annular flange and each flange being interrupted for a portion of its circumference to receive the uninterrupted part of the other flange and the uninterrupted part of each flange being bent back upon itself to provide a groove for receiving a part of the flange on the other part and thus form a bayonet joint connection between the parts of the shell.

1,419,906. ROTARY SECTIONAL INSPECTIVE NUT. DAVID C. KLAUSMEYER, Cincinnati, Ohio, assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Original application filed July 8, 1921, Serial No. 483,231. Divided and this application filed Nov. 26, 1921. Serial No. 518,035. 14 Claims. (Cl. 74—40.)



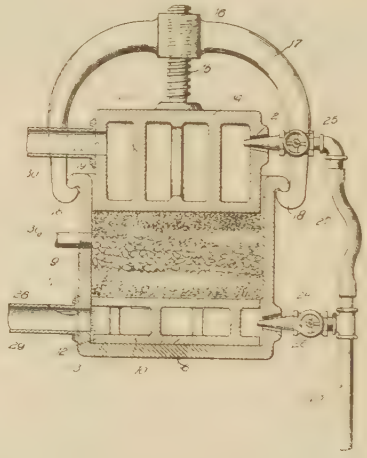
1. A machine-tool combining an upwardly movable frame-element; a fixed lifting-screw therefor; a rotary nut operating in conjunction with said screw, said nut being constructed of two separable sections; and means for preventing the one section from being withdrawn from said screw without first locking the other section against withdrawal.

1,419,907. MANUFACTURE OF PNEUMATIC TIRE CASINGS. JOHN V. WORTHINGTON, Axminster, England, assignor to The Dunlop Rubber Company, Limited, Regent's Park, London, England, a British Company. Filed Jan. 11, 1922. Serial No. 528,523. 13 Claims. (Cl. 164—49.)



1. The combination in a machine of the class described, of means for cutting a sheet of material into strips, and a narrow conveyor so disposed relative to said cutting means as to receive the cut strips at substantially their middle parts, said strips being uniformly spaced for delivery at points along the length of the conveyor.

1,419,908. COKING COAL. FRANZ PUENING, Pittsburgh, Pa. Filed Nov. 30, 1917. Serial No. 204,578. 15 Claims. (Cl. 202—8.)



13. A process of coking coal which consists in interposing a mass of coal between a pair of relatively movable members, heating said members above a coking temperature and effecting the coking of the coal by a coking temperature transmitted by these members only.

REISSUES.

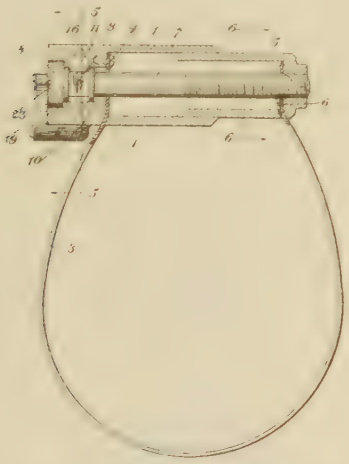
15,379. NUT LOCK. EARL H. BECHBERGER, Cleveland, Ohio. Filed Apr. 19, 1922. Serial No. 555,635. Original application filed Nov. 4, 1916, Serial No. 129,563. Renewed May 11, 1918, Serial No. 234,014. Original No. 1,281,122, dated Oct. 8, 1918. 3 Claims. (Cl. 151—54.)

1. In combination with a bolt and a nut screwed upon the bolt, of a locking means between said nut and bolt

comprising an inner washer co-engaging with the bolt and having an inner serrated face, and an outer washer, both of said washers comprising peripherally rounded members, the inner washer being slitted inwardly from its periphery at diametrically opposite points, and being bent angularly from said slits to form oppositely arranged, outwardly extending lugs and shoulders inward of said lugs, the outer washer having the central opening therein provided with a plurality of substantially V shaped con-

nected members, and the angular walls provided by certain of the said members designed to receive the edges of the perimeter of the nut, said second mentioned washer having its periphery provided with oppositely extending L shaped depressions, the shorter walls of which form longitudinal shoulders, and such shoulders adapted to be engaged by the shoulders of the lugs of the first mentioned washer, whereby to lock the second mentioned washer on the first mentioned washer.

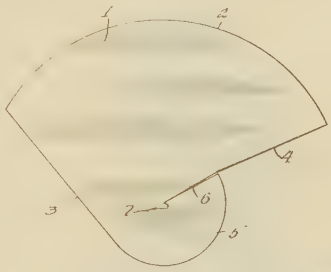
15,380. TIRE LOCK. WALTER T. CAMPBELL, St. Louis, Mo. Filed June 4, 1921. Serial No. 475,095. Original No. 1,326,180, dated Dec. 30, 1919, Serial No. 318,581, filed Aug. 19, 1919. 14 Claims. (Cl. 70—17.)



14. A spare tire lock for vehicles, consisting of a device that is adapted to be passed around a tire mounted on a support, members secured to the end portions of said device, a screw rotatably mounted in one of said members and adapted to be moved into engagement with screw threads in the other member to draw said members towards each other, and a concealed key controlled means for locking said screw.

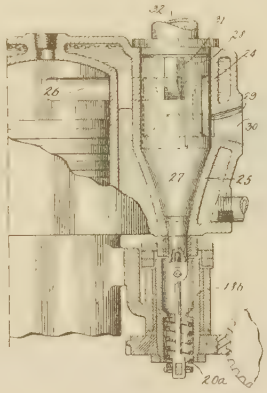
15,381. BLANK FOR PAPER CUPS. DAVID F. CURTIN, Chicago, Ill. Filed Mar. 25, 1922. Serial No. 546,907. Original application filed Sept. 22, 1914, Serial No. 862,871. Renewed Nov. 11, 1915, Serial No. 60,996. Original No. 1,188,048, dated June 20, 1916. 9 Claims. (Cl. 229—1.5.)

4. A blank for forming a conical vessel, said blank having a main body and an extension, the main body having a curved edge and two approximately straight edges, the latter making different angles with the radii running to their respective outer ends, the extension protruding



in the general direction of one of said approximately straight edges beyond the line of the other approximately straight edge.

15,382. INTERNAL-COMBUSTION-ENGINE VALVE. JOHN GOOD, Garden City, N. Y., assignor to Good Inventions Co., Brooklyn, N. Y., a Corporation of New York. Filed Feb. 27, 1922. Serial No. 539,776. Original No. 1,230,291, dated June 19, 1917, Serial No. 74,553, filed Jan. 27, 1916. 15 Claims. (Cl. 123—177.)

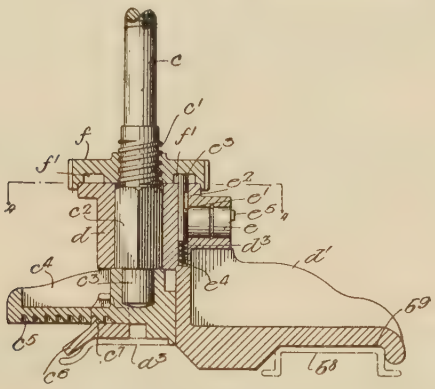


15. A rotary valve for combustion engines comprising a casing and a single rotary valve member therein, said casing and member being provided with an inlet passage for admitting air to the cylinder and an exhaust passage for the escape of combustion products therefrom both controlled by said single rotary valve member which has a part by which it is journaled and another part by which it cooperates with said casing to close said inlet and exhaust passages, said passage closing part and said valve casing being respectively provided with concentric, parallel, ported surfaces closely opposed in imperfect or pressureless contact with each other and thereby co-acting to seal said passages without the presence of a liquid film between them, and self-centering and endwise-seating journal means for the journal part of said member adapted to support the passage closing part in the aforesaid relationship and serving to permit wear displacement of the valve member only in an axial direction.

15,383. AUTO-TIRE-TUBE CARRIER. CHARLES JERABEK, Philadelphia, Pa., assignor to Louis Rothschild, Philadelphia, Pa. Filed Feb. 10, 1922. Serial No. 535,648. Original No. 1,351,517, dated Aug. 31, 1920, Serial No. 352,676, filed Jan. 20, 1920. 16 Claims. (Cl. 224—29.)

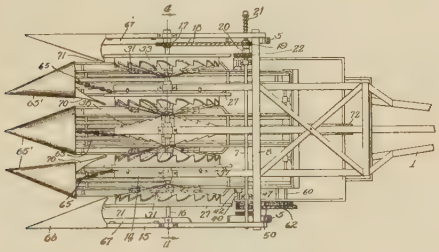
5. An auto tire-tube carrier comprising a yoke; members projecting from the yoke; rim engaging shoes for

said members; a sleeve slidable but non-rotatably mounted on one of the members; a shoe rigidly connected with



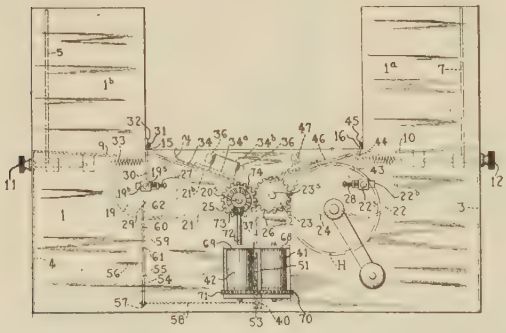
said sleeve; and locking means including an element rotatably mounted on said member for normally preventing sliding of the sleeve on its member.

15,384. THRASHING MACHINE. GUSTAV PAUL LUEDKE, Springfield, Ill. Filed Aug. 2, 1921. Serial No. 489,389. Original No. 1,379,112, dated May 24, 1921, Serial No. 325,856, filed Sept. 24, 1919. 35 Claims. (Cl. 56—129.)



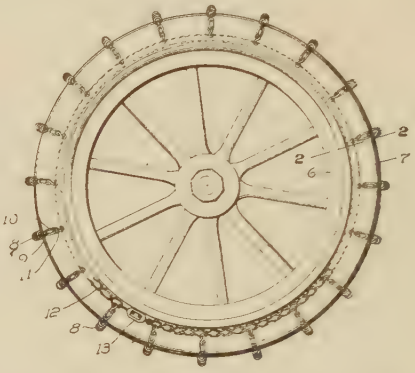
1. A thrashing machine including a revoluble thrashing element, another thrashing element at one side thereof, said elements having their cooperating faces converging toward the axis of rotation of the revoluble element.

15,385. APPARATUS FOR ENVELOPING MAILING MATTER. FLORENCE MCCARTHY, New York, N. Y., assignor of one-half to Jerome Wile, New York, N. Y. Filed Mar. 23, 1920. Serial No. 368,150. Original No. 1,305,390, dated June 3, 1919, Serial No. 221,614, Filed Mar. 11, 1918. 45 Claims. (Cl. 93—6.)



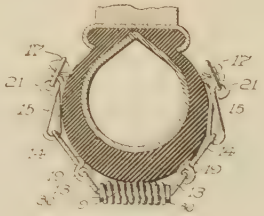
41. A machine of the character described, comprising envelope and enclosure magazines, a stationary stop at a fixed loading station, means for feeding an envelope from the envelope magazine with its lower edge in advance against said stop, and means for feeding an enclosure from the enclosure magazine and inserting the same into the envelope while it remains stationary against said stop.

15,386. ARMOR FOR VEHICLE TIRES. VICTOR P. RATZBURG, Newton, Mass., assignor, by mesne assignments, to Barrell Holding and Manufacturing Company, Portland, Me., a Corporation of Maine. Filed Apr. 28, 1922, Serial No. 557,185. Original application filed Oct. 21, 1907, Serial No. 398,323. Renewed Nov. 12, 1917, Serial No. 201,660. Original No. 1,338,842, dated May 4, 1920. 17 Claims. (Cl. 152—14.)



16. A traction and anti-skidding device for vehicle tires, comprising, in combination, annular side holding means to be disposed at opposite sides of a wheel, and flexible cross members adapted to extend transversely of a tire, said cross members being connected to the side holding means at intervals and including rotative elements of such cross section as to adapt them in action to roll on the tire tread with automatic rotative adjustment, thereby to distribute the wear substantially equally over the entire peripheral surfaces of the elements; the whole being adapted to be supported on the tire and to be retained thereon independently of positive attachment.

15,387. ARMOR FOR VEHICLE TIRES. VICTOR P. RATZBURG, Newton, Mass., assignor, by mesne assignments, to Barrell Holding and Manufacturing Company, Portland, Me., a Corporation of Maine. Filed Apr. 28, 1922. Serial No. 557,186. Original application filed Mar. 7, 1908, Serial No. 419,665. Renewed Nov. 12, 1917, Serial No. 201,661. Original No. 1,338,843, dated May 4, 1920. 13 Claims. (Cl. 152—14.)



12. Tire armor comprising, in combination, annular side holding means adapted to be disposed at opposite sides of a wheel and free from direct attachment thereto, and cross members connected to said side holding means at intervals and adapted to extend transversely of the tread of a tire, each of said cross members including a rotatable cylindrical tread element constructed and arranged to maintain its cylindrical form, and links for holding said cylindrical tread element in substantially tangential relation to the crown of the tire; that said element in action may rest evenly with its full length on the roadbed, and rotatively adjust itself to distribute the wear throughout the length and circumference of the tread element.

DESIGNS.

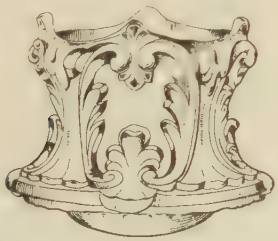
61,058. RING OR SIMILAR ARTICLE OF MANUFACTURE. MAX BAUMAN, New York, N. Y. Filed Jan. 12, 1922. Serial No. 176. Term of patent 3½ years.

The ornamental design for a ring or similar article of manufacture, as shown.

61,059. LOOP FOR LIGHTING FIXTURES. THURE E. DAHL, New York, N. Y. Filed May 31, 1921. Serial No. 473,926. Term of patent 3½ years.

The ornamental design for a loop for lighting fixtures, as shown.

61,060. CANDLE CUP FOR LIGHTING FIXTURES. THURE E. DAHL, New York, N. Y. Filed May 31, 1921. Serial No. 473,927. Term of patent 3½ years.



The ornamental design for a candle cup for lighting fixtures, as shown.

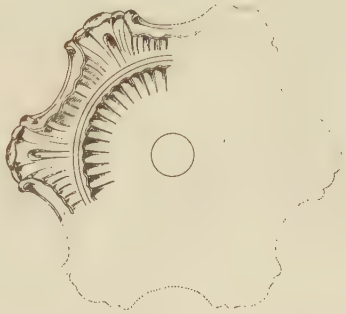
61,061. BRACKET BACK FOR LIGHTING FIXTURES. THURE E. DAHL, New York, N. Y. Filed May 31, 1921. Serial No. 473,928. Term of patent 3½ years.

The ornamental design for a bracket back for lighting fixtures, as shown.

61,062. ARM FOR ELECTRIC FIXTURES. THURE E. DAHL, New York, N. Y. Filed May 31, 1921. Serial No. 473,929. Term of patent 3½ years.

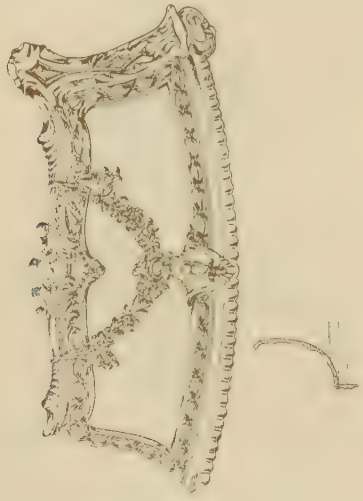
The ornamental design for an arm for electric fixtures, as shown.

61,063. PLATE FOR LIGHTING FIXTURES. THURE E. DAHL, New York, N. Y. Filed May 31, 1921. Serial No. 473,932. Term of patent 3½ years.



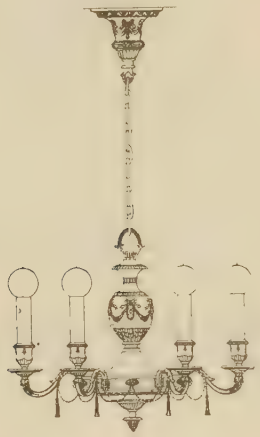
The ornamental design for a plate for lighting fixtures, as shown.

61,064. BAND FOR LIGHTING FIXTURES. THURE E. DAHL, New York, N. Y. Filed May 31, 1921. Serial No. 473,933. Term of patent 3½ years.



The ornamental design for a band for lighting fixtures, as shown.

61,065. ELECTRIC FIXTURE. THURE E. DAHL, New York, N. Y. Filed May 31, 1921. Serial No. 473,934. Term of patent 3½ years.



The ornamental design for an electric fixture, as shown.

61,066. ELECTRIC ARM FOR LIGHTING FIXTURES. THURE E. DAHL, New York, N. Y. Filed May 31, 1921. Serial No. 473,937. Term of patent 3½ years.

The ornamental design for an electric arm for lighting fixtures, as shown.

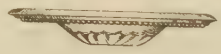
61,067. ELECTRIC ARM FOR LIGHTING FIXTURES. THURE E. DAHL, New York, N. Y. Filed May 31, 1921. Serial No. 473,938. Term of patent 3½ years.

The ornamental design for an electric arm for lighting fixtures, as shown.

61,068. ARM FOR LIGHTING FIXTURES. THURE E. DAHL, New York, N. Y. Filed May 31, 1921. Serial No. 473,939. Term of patent 3½ years.

The ornamental design for an arm for lighting fixtures, as shown.

61,069. PAN FOR CANDLE CUPS FOR LIGHTING FIXTURES. THURE E. DAHL, New York, N. Y. Filed May 31, 1921. Serial No. 473,940. Term of patent 3½ years.



The ornamental design for a pan for candle cups for lighting fixtures, as shown.

61,070. LOOP FOR LIGHTING FIXTURES. THURE E. DAHL, New York, N. Y. Filed May 31, 1921. Serial No. 473,941. Term of patent 3½ years.

The ornamental design for a loop for lighting fixtures, as shown.

61,071. CANDLE CUP FOR LIGHTING FIXTURES. THURE E. DAHL, New York, N. Y. Filed May 31, 1921. Serial No. 473,942. Term of patent 3½ years.

The ornamental design for a candle cup for lighting fixtures, as shown.

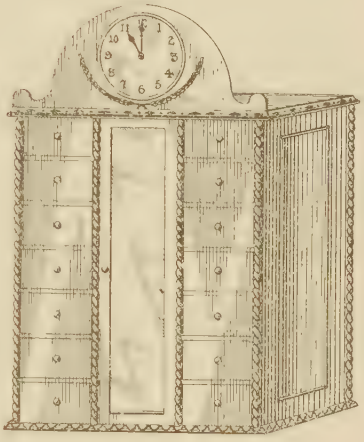
61,072. CANOPY FOR LIGHTING FIXTURES. THURE E. DAHL, New York, N. Y. Filed May 31, 1921. Serial No. 473,944. Term of patent 3½ years.

The ornamental design for a canopy for lighting fixtures, as shown.

61,073. BAND FOR LIGHTING FIXTURES. THURE E. DAHL, New York, N. Y. Filed May 31, 1921. Serial No. 473,946. Term of patent 3½ years.

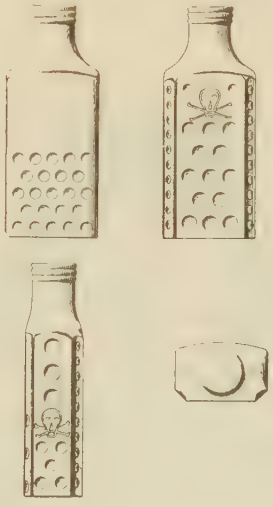
The ornamental design for a band for lighting fixtures, as shown.

61,074. KITCHEN CABINET. LEONARD TOKARSKI, Harvey, Ill. Filed May 16, 1921. Serial No. 469,998. Term of patent 7 years.



The ornamental design for a kitchen cabinet, as shown.

61,075. BOTTLE. FRED H. WENDT, Watertown, Wis., assignor of one-third to Alvin Schumaker, Watertown, Wis. Filed Aug. 24, 1921. Serial No. 495,110. Term of patent 7 years.



The ornamental design for a bottle, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 13, 1922.

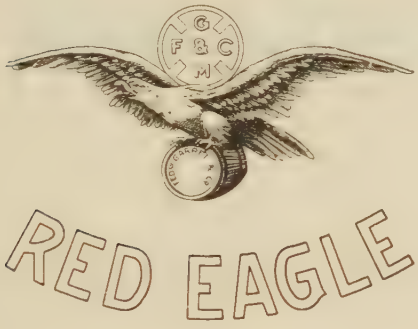
[PUBLISHED JUNE 14, 1922.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 130,587. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FED. GARRET AND CO., Malaga, Spain. Filed Apr. 3, 1920.

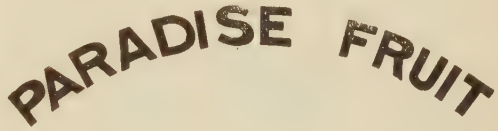


Particular description of goods.—Olive Oil.
Claims use since about February, 1918.

Ser. No. 130,588. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FED. GARRET AND CO., Malaga, Spain. Filed Apr. 3, 1920.

No claim being made to the exclusive use of the word "Malaga" apart from the mark as shown in the drawing.
Particular description of goods.—Olive Oil.
Claims use since about February, 1906.

Ser. No. 132,762. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SHORT & SON CO., Reading, Pa. Filed May 21, 1920.



No claim being made to the word "Fruit" apart from the remainder of the mark.
Particular description of goods.—Chewing Gum.
Claims use since some time in May, 1920.

Ser. No. 133,061. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE NEW TREAD TIRE COMPANY, Columbiana, Ohio. Filed May 28, 1920.

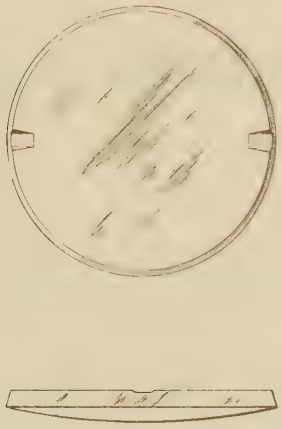
Applicant disclaims the representation of an automobile tire apart from that shown in the drawings.
Particular description of goods.—Automobile Rubber Tires.
Claims use since Jan. 3, 1920.

Ser. No. 134,616. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE U & J CARBURETOR COMPANY, Chicago, Ill. Filed July 6, 1920.

U & J CARBURETOR CO

Particular description of goods.—Timers for Internal-Combustion Engines.
Claims use since July 1, 1919.

Ser. No. 135,392. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) AMERICAN OPTICAL COMPANY, Southbridge, Mass. Filed July 26, 1920.



The mark consists of a cut or indentation formed directly in the lens or in the pictorial representation of a circular figure with such cut or indentation, substantially as illustrated in the specimen and drawings. Applicant, however, specifically disclaims the representation of a lens apart from the mark as shown by the drawing.
Particular description of goods.—Eyeglasses, Spectacles, and Ophthalmic Lenses.
Claims use since about July 1, 1920.

Ser. No. 136,185. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CRANDALL PETTEE CO., New York, N. Y. Filed Aug. 17, 1920.

KREAMO

Particular description of goods.—Ice-Cream Powder.
Claims use since Jan. 1, 1910.

Ser. No. 138,405. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LETTIE C. ROBINSON, doing business as Eastern Malt Products Co., Concord, N. Y. Filed Oct. 16, 1920.

Robinson's Diamond Brand

Applicant disclaims the word "Brand" apart from the other features of the mark.
Particular description of goods.—Malt Sirup Used as a Food Product.
Claims use since July 1, 1919.

Ser. No. 139,048. (CLASS 12. CONSTRUCTION MATERIALS.) PYRO-NON PAINT CO., INC., Brooklyn, N. Y. Filed Nov. 1, 1920.

PYRO-NON

Particular description of goods.—Fireproofing Compounds in Liquid and Solid Form.
Claims use since August, 1918.

Ser. No. 139,084. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE NEW HOME SEWING MACHINE COMPANY, Orange, Mass. Filed Nov. 2, 1920.

The translation of the Chinese characters appearing on the body of the bat is "Sewing Machine;" those on the right wing as viewed in the drawing, "Rich;" those on the opposite or left wing, "Home;" while the characters at the bottom or just below the bat are, literally, "American Manufactured Goods." No claim is made for the English equivalent expressions "Sewing Machine" and "American Manufactured Goods" apart from the mark shown in the drawing. The representations of the bats being lined for red and the Chinese characters lined for gold.
Particular description of goods.—Sewing Machines and Attachments.
Claims use since on or about Sept. 8, 1920.

Ser. No. 139,520. (CLASS 39. CLOTHING.) FITZ CHEMICAL COMPANY, Phillipsburg, N. J. Filed Nov. 11, 1920.

SPRI-FOOT

Particular description of goods.—Rubber Heels.
Claims use since in or about December, 1912.

Ser. No. 141,025. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE HERBERT RYDER CO., (not incorporated), Chicago, Ill. Filed Dec. 13, 1920.

NEWAY

Particular description of goods.—Show-Window Display Fixtures and Parts Thereof, and Particularly Brackets on Which to Support Shoes for Display.
Claims use since Nov. 26, 1920.

Ser. No. 141,068. (CLASS 39. CLOTHING.) F. P. HOY, INCORPORATED, New York, N. Y. Filed Dec. 14, 1920.

Ysabel

Particular description of goods.—Corsets.
Claims use since July, 1920.

Ser. No. 141,228. (CLASS 39. CLOTHING.) THE LITTLE DUCHESS DRESS CO. INC., New York, N. Y., assignors to Rotary Frocks, Inc., New York, N. Y., a Corp. of New York. Filed Dec. 17, 1920.

Rotary Frocks

The word "Frocks" is disclaimed apart from the mark shown.
Particular description of goods.—Women's, Misses', Children's, and Infants' Clothing—Namely, Suits, Dresses, Skirts, Coats, Waists, Underwaists, Brassières, Camisoles, Corset Covers, and Bloomers.
Claims use since Nov. 25, 1920.

Ser. No. 142,213. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HEBERLEIN & CO. A. G., Wattwil and Rietwies, Switzerland. Filed Jan. 13, 1921.

Particular description of goods.—Mercerized Cotton Fabrics in Pieces, Permanent Organdie, Cotton Fabrics Chemically Finished to Have the Appearance, Wholly or Partly, of Wool, and Sometimes Known as Opale, in Pieces.
Claims use since January, 1908.

Ser. No. 142,316. (CLASS 12. CONSTRUCTION MATERIALS.) ARTHUR MÜLLER BAUTEN UND INDUSTRIEWERKE, Johannisthal, near Berlin, Germany. Filed Jan. 17, 1921.

Ambi

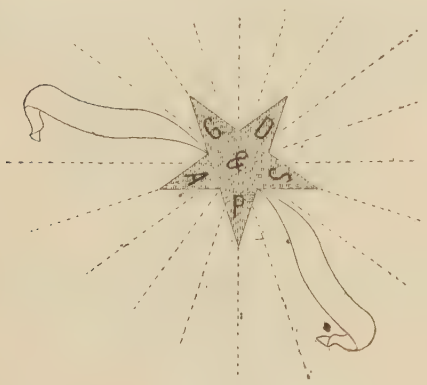
Particular description of goods.—All Kinds of Building Materials—Namely, Artificial Building Stones, Concrete Plates or Slabs, and Stones, Bricks, Tiles, Ceiling Stones, Iron and Wooden Trusses, Beams, Girders, Planks, Concrete, Lime, Plaster, Asphalt, Portable Houses, Barns, Sheds, and Cottages.
Claims use since Oct. 18, 1918.

Ser. No. 142,408. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) OVINGTON BROS. COMPANY, New York, N. Y. Filed Jan. 18, 1921. Under ten-year proviso.

OVINGTON'S

Particular description of goods.—Imitation Art Bronzes and Imitation Bronzes.
Claims use since Jan. 1, 1895.

Ser. No. 142,474. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) G. DI SALVO & A. PATERA, Brooklyn, N. Y. Filed Jan. 20, 1921.



Particular description of goods.—Canned Fruits and Vegetables.
Claims use since Dec. 7, 1920.

Ser. No. 142,552. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BELL CHEMICAL CO., Defiance, Ohio. Filed Jan. 21, 1921.

Nippsit

Particular description of goods.—A Medicinal Ointment for the Purpose of Relieving Congestion of the Nose, Throat, and Chest Through the Medium of This Ointment Rubbed Directly on or Near the Part Affected.
Claims use since Jan. 7, 1921.

Ser. No. 142,966. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ENG-SKELL COMPANY, INC., San Francisco, Calif. Filed Jan. 31, 1921.

ENG-SKELL CO.

Particular description of goods.—Flavoring Oils, Flavoring Extracts, Flavoring Compounds, Preserved Fruits, Fruit Compounds, Food Sirups, and Confectioners' Specialties, Such as Marshmallow Topping, Pie Filler, Meringue Powder, Ice-Cream Ripener, and Ice-Cream Stabilizer for Use in Candies, Confectionery, Bakery Goods, Sirups, Ice Creams, and Ices.
Claims use since 1904.

Ser. No. 142,967. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ENG-SKELL COMPANY, INC., San Francisco, Calif. Filed Jan. 31, 1921.

"Your Flavoring Friends"

Particular description of goods.—Flavoring Oils, Flavoring Extracts, Flavoring Compounds, Preserved Fruits, Food Sirups, Fruit Compounds, and Confectioners' Specialties, Such as Marshmallow Topping, Pie Filler, Meringue Powder, Ice-Cream Ripener, and Ice-Cream Stabilizer for Use in Candies, Confectionery, Bakery Goods, Sirups, Ice Creams, and Ices.
Claims use since 1905.

Ser. No. 142,979. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KIELSMEIER COMPANY, Manitowoc, Wis. Filed Jan. 31, 1921.

No claim being made to the exclusive use of the words "Extra Creamery," the words "Table Butter," the words "Cleanliness Our Motto," and the words "Mf'd by Kielsmeier Co., Manitowoc, Wisconsin" apart from the mark shown in the drawings.
Particular description of goods.—Dairy Products—viz, Butter.
Claims use since the year 1905.

Ser. No. 143,874. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WALTON N. MOORE DRY GOODS CO., San Francisco, Calif. Filed Feb. 21, 1921.

MORTEX

Particular description of goods.—Cotton and Cotton Mixed Wash Dress Piece Goods.
Claims use since Jan. 1, 1920.

Ser. No. 143,885. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass. Filed Feb. 21, 1921.

BUNKER HILL

Particular description of goods.—Candy.
Claims use since 1875.

Ser. No. 144,010. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) BROMOGRAPH A.-G. MANNHEIM, Mannheim, Germany. Filed Feb. 25, 1921.

Bromograph

Particular description of goods.—Photographic-Printing Machines and Their Parts and Sensitized Photographic Paper.

Claims use since Sept. 11, 1913.

Ser. No. 144,595. (CLASS 38. PRINTS AND PUBLICATIONS.) WOLLENSAK OPTICAL COMPANY, Rochester, N. Y. Filed Mar. 10, 1921.

The trade-mark consists of similar upper and lower convex lenses and an intermediate double concave lens of greater diameter than the upper and lower lenses and arranged in spaced relation with the same, the lenses being connected by curved lines to form therewith a representation of the world.

Particular description of goods.—A Monthly Periodical Devoted to the Interest of the Implement Optical Trade.

Claims use since January, 1921.

Ser. No. 144,972. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ALEX H. IRVIN COMPANY, Curwensville, Pa. Filed Mar. 19, 1921.

AHICO

Particular description of goods.—Automatic Paper-Fastening Machines.

Claims use since Dec. 1, 1920.

Ser. No. 145,350. (CLASS 12. CONSTRUCTION MATERIALS.) ARTHUR MÜLLER BAUTEN UND INDUSTRIEWERKE, Johannisthal, near Berlin, Germany. Filed Mar. 28, 1921.

Ambinit

Particular description of goods.—All Kinds of Building Materials—Namely, Artificial Building Stones, Concrete Plates or Slabs, and Stones, Bricks, Tiles, Ceiling Stones, Iron and Wooden Trusses, Beams, Girders, Planks, Concrete, Lime, Plaster, Asphalt, Portable Houses, Barns, Sheds, and Cottages.

Claims use since Apr. 24, 1920.

Ser. No. 145,638. (CLASS 17. TOBACCO PRODUCTS.) JOHN NORMAN MCCRARY, High Point, N. C. Filed Apr. 2, 1921.

Oh Pa

Particular description of goods.—Cigars Made of Various Tobaccos.

Claims use since Apr. 1, 1919.

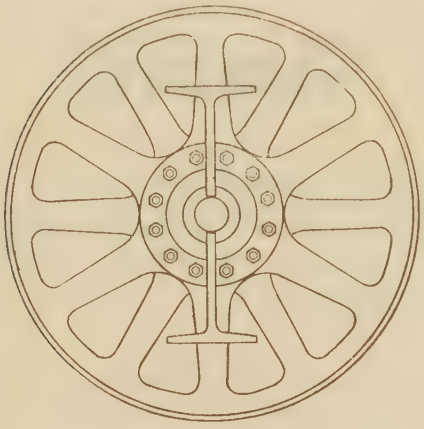
Ser. No. 145,649. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROYAL BAKING COMPANY, Salt Lake City, Utah. Filed Apr. 2, 1921.

ROYAL

Particular description of goods.—Bread or Rolls (Wheat, Rye, Milk, Graham, Raisin), Cake, and Zwieback.

Claims use since the year 1896.

Ser. No. 145,765. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) BETHLEHEM STEEL COMPANY, Bethlehem, Pa. Filed Apr. 6, 1921.



No claim is made to the representation of the wheel alone in so far as it is a representation of the wheels to which it is applied.

Particular description of goods.—Automobile and Truck Wheels.

Claims use since Feb. 5, 1921.

Ser. No. 146,503. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHREIBER PRODUCTS CORPORATION, Buffalo, N. Y. Filed Apr. 21, 1921.

MANRU

Particular description of goods.—Malt Extract Sirup for Food Purposes.

Claims use since Apr. 1, 1921.

Ser. No. 146,505. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHREIBER PRODUCTS CORPORATION, Buffalo, N. Y. Filed Apr. 21, 1921.

SAMO

Particular description of goods.—Malt Extract Sirup for Food Purposes.

Claims use since Apr. 1, 1921.

Ser. No. 146,506. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHREIBER PRODUCTS CORPORATION, Buffalo, N. Y. Filed Apr. 21, 1921.

NILO

Particular description of goods.—Malt Extract Sirup for Food Purposes.

Claims use since Apr. 1, 1921.

Ser. No. 146,516. (CLASS 17. TOBACCO PRODUCTS.) HORMISDAS MORRIER, doing business as Bible Land Cigar Company, Portsmouth, N. H. Filed Apr. 22, 1921.

SMOKE A L A CIGAR

No claim being made to the words "Smoke" and "Cigar" apart from the mark shown.

Particular description of goods.—Manufactured Cigars.

Claims use since May 15, 1918.

Ser. No. 146,736. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHREIBER PRODUCTS CORPORATION, Buffalo, N. Y. Filed Apr. 25, 1921.

OCTAGON

Particular description of goods.—Malt Extract Sirup for Food Purposes.

Claims use since Apr. 19, 1921.

Ser. No. 146,867. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CROWN SUPPLY COMPANY INC., New York, N. Y. Filed Apr. 28, 1921.

BLUE BIRD

Particular description of goods.—Dental Cream, Paste, Powder and Liquid Cleaner, Cream.

Claims use since September, 1915.

Ser. No. 147,744. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHREIBER PRODUCTS CORPORATION, Buffalo, N. Y. Filed May 14, 1921.

HI-CRAFT

Particular description of goods.—Malt Extract Sirup for Food Purposes.

Claims use since Apr. 15, 1921.

Ser. No. 147,826. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) ORBEA HERMANOS, Eibar, Spain. Filed May 17, 1921.

Particular description of goods.—Firearms of All Kinds.
Claims use since the year 1897.

Ser. No. 148,336. (CLASS 39. CLOTHING.) JAMES LEES AND SONS COMPANY, Bridgeport, Pa. Filed May 27, 1921.

James Lees

Particular description of goods.—Knitwear, Fancy Knit Goods; Machine-Made Sweaters, in Light and Heavy Weights for Men and Women, Made of Worsted, Camel Hair, Vicuña, and Art Silk; Scarfs of Alpaca, Camel Hair, Vicuña, and Art Silk for Women; Men's Mufflers of Alpaca, Camel Hair, and Vicuña; Misses' Alpaca and Vicuña Tam o' Shanters, Jerseys, Golf Coats, Sweaters, and Bathing Suits.
Claims use since April 28, 1921.

Ser. No. 148,582. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) THE DU BOIS MALT DISTRIBUTING HOUSE, Dubois, Pa. Filed June 3, 1921.

Red Seal Brand

No claim being made to the word "Brand."
Particular description of goods.—Malt Extracts.
Claims use since Mar. 1, 1921.

Ser. No. 148,844. (CLASS 31. FILTERS AND REFRIGERATORS.) HIRAM N. LATHROP, Boston, Mass. Filed June 8, 1921.

ICED-AIRE

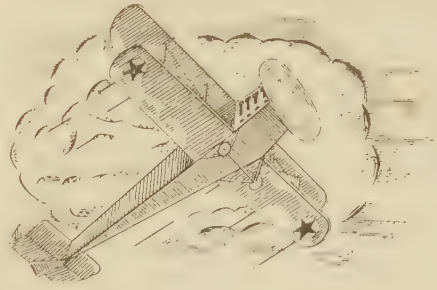
Particular description of goods.—Refrigerators.
Claims use since Aug. 20, 1920.

Ser. No. 149,083. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JELLICO GROCERY COMPANY, Williamsburg, Ky., and Jellico, Tenn. Filed June 13, 1921.

CUMBERLAND CLUB

Particular description of goods.—Baking Powder.
Claims use since Dec. 15, 1920.

Ser. No. 149,122. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BLAKELY MILLING CO., Atlanta, Ga. Filed June 14, 1921.



Particular description of goods. Corn Meal.
Claims use since Jan. 1, 1920.

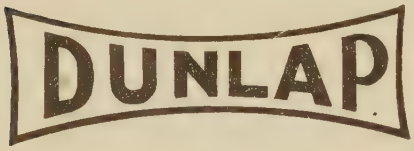
Ser. No. 149,787. (CLASS 39. CLOTHING.) WILSON PROCESS, INC., New York, N. Y. Filed June 28, 1921.

No exclusive claim is made to the words "Sewed Shoes" apart from the mark as herein shown.

Particular description of goods.—Boots and Shoes Made Wholly or in Part of Leather, Canvas, or Textile Materials.

Claims use since May 1, 1920.

Ser. No. 149,901. (CLASS 39. CLOTHING.) THE JACKSON & GUTMAN COMPANY, Salisbury, Md. Filed July 1, 1921.



Particular description of goods.—Negligee Shirts.

Claims use since January, 1901.

Ser. No. 150,121. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A/S UNITED SARDINE FACTORIES, Bergen, Norway. Filed July 7, 1921.

KING HAAKON BRAND

The word "Brand" is disclaimed except as it forms a part of the mark shown upon the drawing filed.

Particular description of goods.—Canned Foods of Smoked or Salted Fish or Herring.

Claims use since Nov. 14, 1905.

Ser. No. 150,359. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE HERCULES WOOD HEEL FASTENER CO., New York and Brooklyn, N. Y. Filed July 14, 1921.

The words "Wood Heel Fastener" and the words "Trade Mark" and the representation of the wood heel fastener are disclaimed apart from the mark shown.

Particular description of goods.—Wooden Heel Fasteners for Shoes.

Claims use since July 7, 1919.

Ser. No. 150,887. (CLASS 38. PRINTS AND PUBLICATIONS.) MATTHEW BENDER & COMPANY, INCORPORATED, Albany and New York, N. Y. Filed July 25, 1921.

Particular description of goods.—Printed Books.

Claims use since December, 1907.

Ser. No. 151,079. (CLASS 39. CLOTHING.) CALTON MANUFACTURING COMPANY, Spartanburg, S. C. Filed July 29, 1921.

FIT-U

Particular description of goods.—Hosiery.

Claims use since October, 1919.

Ser. No. 151,586. (CLASS 39. CLOTHING.) J. A. MIGEL INC., New York, N. Y. Filed Aug. 9, 1921.

MIGEL SILKS

WYL-A-WAY

No claim being made to the word "Silks" apart from the mark shown.

Particular description of goods.—Ladies' and Misses' Silk Shirt Waists, Suits, Skirts, and Dresses; Petticoats, Nightgowns, and Underwear Made of Textile Fabrics—Namely, Drawers, Union Suits, Bloomers, Corset Covers, Chemises, Brassières, and Bodices.

Claims use since June 27, 1921.

Ser. No. 151,642. (CLASS 39. CLOTHING.) FRANKLIN SIMON & CO. INC., New York, N. Y. Filed Aug. 10, 1921.

Télise

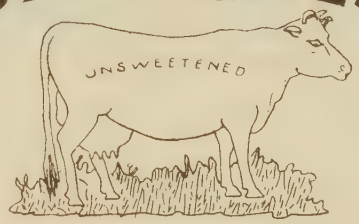
Particular description of goods.—Men's and Boys' Furnishings, Undergarments, and Clothing—Namely, House Coats, Waistcoats, Bath Robes, Smoking Robes, Smoking Jackets, Drawers, Pyjamas, Dress Shirts, Undershirts, Nightshirts, Union Suits, Bathing Suits, Swimming Suits, Dressing Gowns, Sweaters, Mufflers, Collars, Gloves, Hosiery, Overcoats, Raincoats, Dress Suits, Golf Suits, Hunting Suits, Riding Suits, Tuxedo Suits, Walking Suits, Sack Suits, Trousers, Hats and Caps Made Out of Textile Material; and Gloves, Sweaters, Mufflers, Bathing Suits, Swimming Suits, Drawers, Undershirts, Hats and Caps Made Out of Knitted Material; and for Women's, Girls', and Misses' Furnishings, Undergarments, and Clothing—Namely, Dresses, Corsets, Tailored Suits, Walking Suits, Sport Suits, Golf Suits, Riding Suits, Negligees, Skirts, Nightgowns, Petticoats, Bodices, Chemises, Drawers, Combinations, Bath Robes, Shirt Waists, Bathing Suits, Dressing Gowns, Sweaters, Mufflers, Hosiery, Raincoats, Sport Coats, Hats, Caps, and Coats Made Out of Textile Material; and Dresses, Corsets, Tailored Suits, Walking Suits, Sport Suits, Negligees, Golf Suits, Riding Suits, Skirts, Nightgowns, Petticoats, Bodices, Chemises, Drawers, Combinations, Bath Robes, Shirt Waists, Bathing Suits, Dressing Gowns, Sweaters, Mufflers, Hosiery, Hats and Caps Made Out of Knitted Material; and for Men's, Women's, Boys', and Girls' Shoes, Boots, Slippers, Leggings, Puttees Made Out of Leather, Rubber, Canvas, Buckskin, or Linen or Compositions of Similar Materials.

Claims use since Apr. 1, 1921.

Ser. No. 151,698. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BORDEN COMPANY, New York, N. Y. Filed Aug. 12, 1921.

ST. CHARLES

REG US PAT OFF



No claim being made to the words "Reg. U. S. Pat. Off." the word "Unsweetened," and the pictorial representation of a cow apart from the mark as shown in the drawing.

Particular description of goods.—Evaporated Milk.

Claims use since Aug. 31, 1891.

Ser. No. 151,860. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BREWSTER SONS COMPANY, Newark, N. J. Filed Aug. 17, 1921.

Dairy Maid

Particular description of goods.—Plain Chocolate, Milk Chocolate, Peanut Milk Chocolate, Almond Chocolate, Vanilla Chocolate, Cocoa, Malted-Milk Cocoa, Milk-Chocolate Dainties, Vanilla-Chocolate Dainties, Chocolate-Cream Peppermints, Candied Peanut Crisp, Chocolate-Covered Molasses Cocoanut, Chocolate-Covered Molasses Candy, and Chocolate-Covered Crystal Sugar Bars.

Claims use since July 30, 1912.

Ser. No. 151,896. (CLASS 39. CLOTHING.) VICTORIA UNDERGARMENT CO. INC., New York, N. Y. Filed Aug. 17, 1921.

POPPY

Particular description of goods.—Ladies' Muslin and Silk Underwear—viz, Nightgowns, Envelope Chemises, Corset Covers, Camisoles, Billie Burkes, Bloomers, Drawers, One-Piece Pyjamas, and Two-Piece Pyjamas.

Claims use since July 29, 1921.

Ser. No. 152,208. (CLASS 39. CLOTHING.) CHAS. KAUFMAN & BROS., Chicago, Ill. Filed Aug. 26, 1921.

PLUS-FORE

Particular description of goods.—Men's Outer Clothing—Namely, Suits.
Claims use since June 30, 1921.

Ser. No. 152,524. (CLASS 39. CLOTHING.) THE W. E. TUTTLE COMPANY, Rochester, N. Y. Filed Sept. 2, 1921.

No claim being made to the representation of shoes shown on the drawing apart from the other features of the mark.
Particular description of goods.—Leather Shoes and Particularly Men's Shoes.
Claims use since Sept. 1, 1920.

Ser. No. 152,535. (CLASS 39. CLOTHING.) BOB & BASKIND, New York, N. Y. Filed Sept. 3, 1921.

Cast Iron

Particular description of goods.—Men's Work, Dress, Sport, and Negligee Shirts and Boys' Outer Shirts and Blouses.
Claims use since June 7, 1921.

Ser. No. 152,699. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MATTHEW CROSBIE, doing business as James Crosbie & Son, New York, N. Y. Filed Sept. 8, 1921.

Crest

Particular description of goods.—Linen and Cotton Goods—viz, Bed Linen, Table Linen, Handkerchiefs, Lingeries, Baby Linen, and Lace.
Claims use since 1917.

Ser. No. 152,842. (CLASS 39. CLOTHING.) FINGER CAHN CO. INC., New York, N. Y. Filed Sept. 12, 1921.

"TOWNFIELD"

Particular description of goods.—Women's and Misses' Wearing Apparel—Namely, Suits, Dresses, Skirts, Hats, Coats, Hosiery, Waists, Petticoats, Corsets, Sweaters, Belts, Overcoats, Collars, Neckties, and Scarfs; Underwear Made of Knitted Fabrics and Made of Textile Fabrics; Gloves Made of Leather, Made of Rubber, and Made of Knitted Fabric and of Textile Fabric, and Shoes Made of Leather, Made of Rubber, Made of Fabric, or Made of Combinations of Said Materials.
Claims use since May 28, 1921.

Ser. No. 153,012. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PRIMALT PRODUCTS CO., Chicago, Ill. Filed Sept. 16, 1921.

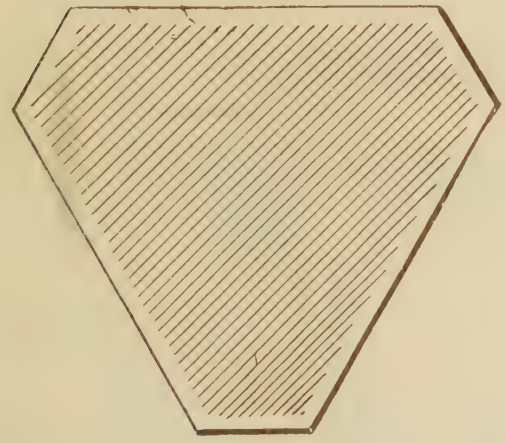
Prima

Particular description of goods.—A Malt Extract for Food Purposes.
Claims use since May 15, 1921.

Ser. No. 153,109. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OKLAHOMA CITY MILL & ELEVATOR CO., Oklahoma, Okla. Filed Sept. 19, 1921.

Particular description of goods.—Wheat Flour.
Claims use since July 21, 1921.

Ser. No. 153,365. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PROPHYLACTIC TOOTH POWDER, INC., New York, N. Y. Filed Sept. 26, 1921.



The trade-mark consists of a purple frustrated triangle.
Particular description of goods.—Tooth Powder.
Claims use since Jan. 4, 1918.

Ser. No. 153,413. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) M. W. SLEIGHT, Dallas and Cuero, Tex. Filed Sept. 27, 1921.

CACKELO

Particular description of goods.—Poultry Food.
Claims use since Mar. 22, 1921.

Ser. No. 153,599. (CLASS 39. CLOTHING.) I. GOLDBERG AND SONS, Boston, Mass. Filed Oct. 1, 1921.

RACER

Particular description of goods.—Tennis Shoes Made of Rubber, Rubberized Cloth, Fabric, and Combinations of the Same.
Claims use since August, 1921.

Ser. No. 153,760. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) G. & H. PRODUCTS CO. INC., Buffalo, N. Y. Filed Oct. 5, 1921.

Particular description of goods.—Malt.
Claims use since about Jan. 10, 1921.

Ser. No. 153,984. (CLASS 39. CLOTHING.) LARGMAN, GRAY COMPANY, Philadelphia, Pa. Filed Oct. 11, 1921.

Particular description of goods.—Silk Hose.
Claims use since June 23, 1921.

Ser. No. 153,992. (CLASS 43. THREAD AND YARN.) MAX POLLACK & CO., INC., New York, N. Y. Filed Oct. 11, 1921.

KNIGHT BRAND

No right is asserted to the exclusive use of the word "Brand" except as part of the mark shown in the drawing.
Particular description of goods.—Sewing Threads.
Claims use since about May 1, 1921.

Ser. No. 154,250. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. G. WILLIAMS HOMEMADE CANDY CO., INC., New Orleans, La. Filed Oct. 17, 1921.

A. G. Williams
HOMEMADE CANDY CO. INC.
ESTABLISHED 1894
LOUISIANA CANE SUGAR
CANDY

No claim being made to the words "Homemade Candy Co. Inc., Established 1894, Louisiana Cane Sugar Candy," aside and apart from the mark as shown.
Particular description of goods.—Candies.
Claims use since July, 1921.

Ser. No. 154,353. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAY, SON & HEWITT, LIMITED, London, England. Filed Oct. 20, 1921.

KOSSOLIAN

Particular description of goods.—Blood Purifiers, Tonics, and Conditioners for Horses, Cows, Calves, Sheep, Lambs, Pigs, and Other Animals.
Claims use since Nov. 4, 1896.

Ser. No. 154,450. (CLASS 39. CLOTHING.) THE HANNAFORD COMPANY, Los Angeles, Calif. Filed Oct. 22, 1921.

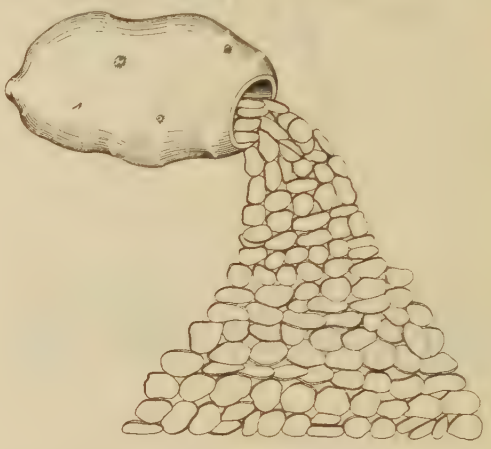
Particular description of goods.—Women's House and Street Dresses.
Claims use since July 19, 1921.

Ser. No. 154,563. (CLASS 39. CLOTHING.) JULIUS KAYSER & CO., New York, N. Y. Filed Oct. 25, 1921.

Slipper-Heel

Particular description of goods.—Stockings.
Claims use since Jan. 1, 1921.

Ser. No. 154,706. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES SHASTEEN, Toledo, Ohio. Filed Oct. 28, 1921.



Particular description of goods.—Potato Chips.
Claims use since May 15, 1921.

Ser. No. 154,877. (CLASS 39. CLOTHING.) IMPROVED REVERSIBLE GLOVE CO., INC., New York, N. Y. Filed Nov. 1, 1921.

The representation of a glove and the words "Improved" and "Reversible" are disclaimed apart from the mark shown.
Particular description of goods.—Gloves Made of Leather, Made of Fabric, and Made of Rubber.
Claims use since September, 1921.

Ser. No. 154,891. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TEXAS STAR FLOUR MILLS, Galveston, Tex. Filed Nov. 1, 1921.

NAVAHO

Particular description of goods.—Wheat Flour.
Claims use since Sept. 23, 1921.

Ser. No. 154,918. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CAPITAL CITY PRODUCTS COMPANY, Columbus, Ohio. Filed Nov. 2, 1921.

Dainty Maid

Particular description of goods.—Butter.
Claims use since Oct. 20, 1921.

Ser. No. 154,972. (CLASS 39. CLOTHING.) D. J. HEALY, doing business as D. J. Healy Shops, Detroit, Mich. Filed Nov. 3, 1921.

GOLD STAR

Particular description of goods.—Women's Underwear of Textile Fabric.
Claims use since Sept. 7, 1921.

Ser. No. 155,045. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA PACKING CORPORATION, San Francisco, Calif. Filed Nov. 5, 1921.

MELBA HALVES

No claim is made to the exclusive use of the word "Halves" except in so far as it may form part of the mark.
Particular description of goods.—Canned Peaches.
Claims use since June 9, 1913.

Ser. No. 155,132. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FLORENCE A. WALDKOENIG, doing business as The Florence Chemical Company, Atlanta, Ga. Filed Nov. 7, 1921.

SURE=NUFF
LIVER PUNCH

Particular description of goods.—A Pharmaceutical Preparation in Liquid Form for the Treatment of Biliousness, Sour Stomach, Gases, Heartburn, Constipation, Headache and Dizziness, and in General as a Liver Tonic.
Claims use since Oct. 21, 1921.

Ser. No. 155,202. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WABASH BAKING POWDER COMPANY, Wabash, Ind. Filed Nov. 8, 1921.

WABASH

KING BRAND

The word "Brand" does not form a part of the registration sought apart from the mark shown in the drawing.
Particular description of goods.—Cornstarch, Flavoring Extracts, Gelatine Dessert, and Tapioca.
Claims use since Aug. 1, 1920.

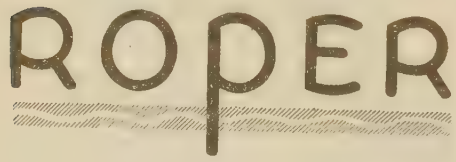
Ser. No. 155,237. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) GEORGE SPENCER, MOULTON & CO. LTD., London and Westminster, London, England. Filed Nov. 9, 1921.

Particular description of goods.—India-Rubber Tires and Inner Tubes.
Claims use since Aug. 30, 1911.

Ser. No. 155,246. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. R. WALKER CANDY CORPORATION, Muskegon, Mich. Filed Nov. 9, 1921.

Particular description of goods.—Candies.
Claims use since 1904.

Ser. No. 155,275. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) GEO. D. ROPER CORPORATION, Rockford, Ill. Filed Nov. 10, 1921.



The name "Roper" is displayed in black, while the heavy bar below said name is displayed in a purple color.
Particular description of goods.—Gas Ranges, Gas Plates, Gas Heaters, and Gas Stoves.
Claims use since on or about Nov. 3, 1921.

Ser. No. 155,282. (CLASS 37. PAPER AND STATIONERY.) GEORGE VINCENT, New York, N. Y. Filed Nov. 10, 1921.

VELTEX

Particular description of goods.—Tracing Paper.
Claims use since Oct. 14, 1920.

Ser. No. 155,294. (CLASS 39. CLOTHING.) AMERICAN WHOLESALE CORPORATION (BALTIMORE BARGAIN HOUSE), Baltimore and Cumberland, Md. Filed Nov. 12, 1921.

TRYON

Particular description of goods.—Work Shirts.
Claims use since Jan. 15, 1905.

Ser. No. 155,339. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DURAN Y CIA., Barcelona, Spain. Filed Nov. 14, 1921.

Particular description of goods.—Olive Oil.
Claims use since January, 1907.

Ser. No. 155,370. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SABEL & BALCH, Chicago, Ill. Filed Nov. 14, 1921.

KLICKAP

Particular description of goods.—Dust Caps for Tire Valves.
Claims use since Oct. 22, 1921.

Ser. No. 155,397. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DELANO, BARTLETT AND DEXTER INC., Boston, Mass. Filed Nov. 15, 1921.

No claim being made to the word "Fabrics."
Particular description of goods.—Cotton Piece Goods Bought in the Piece—Namely, Khaki.
Claims use since April, 1921.

Ser. No. 155,460. (CLASS 39. CLOTHING.) SAKS AND COMPANY, New York, N. Y. Filed Nov. 16, 1921.

Buckingham

Particular description of goods.—Men's and Boys' Suits and Overcoats.
Claims use since about October, 1920.

Ser. No. 155,462. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) SHAPLEIGH HARDWARE COMPANY, St. Louis, Mo. Filed Nov. 16, 1921.

SHAPLEIGH

Particular description of goods.—Pneumatic Rubber Tires and Tubes.
Claims use since July 1, 1921.

Ser. No. 155,517. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PACIFIC COAST BISCUIT COMPANY, Seattle, Wash. Filed Nov. 17, 1921.

FROLIC

Particular description of goods.—Candied Pop Corn.
Claims use since 1906.

Ser. No. 155,523. (CLASS 39. CLOTHING.) MAX SHAW, Philadelphia, Pa. Filed Nov. 17, 1921.

SHAWEARITE

Particular description of goods.—Dress and Negligee Shirts.
Claims use since June 1, 1921.

Ser. No. 155,536. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ANTON WINGEN, Jr., doing business as Anton Wingen, Jr., Solingen, Germany. Filed Nov. 17, 1921.

REDPOINT

Particular description of goods.—Razors.
Claims use since July 4, 1921.

Ser. No. 155,655. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ANDREWS & GOODRICH, INC., Boston, Mass. Filed Nov. 21, 1921.

DRYJECTOR

Particular description of goods.—Air-Current Drying Apparatus for Manufacturing and Industrial Operations.
Claims use since Jan. 15, 1921.

Ser. No. 155,779. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) O. K. STORY & COMPANY, Washburn, Me. Filed Nov. 22, 1921.

Particular description of goods.—Potatoes in Their Natural State.

Claims use since July 27, 1920.

Ser. No. 155,840. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) UNITED STATES CHAIN & FORGING CO., Pittsburgh, Pa. Filed Nov. 23, 1921.

VICTOR

Particular description of goods.—Chains of Base Metal and Tire-Grip Chains.

Claims use since Oct. 17, 1919.

Ser. No. 155,871. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) DRYDEN RUBBER COMPANY, Chicago, Ill. Filed Nov. 25, 1921.

GOLD BOND

Particular description of goods.—Pneumatic Automobile Tires and Inner Tubes Composed of Rubber and Combinations Thereof.

Claims use since July 30, 1919.

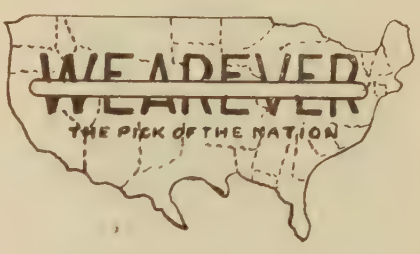
Ser. No. 155,943. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WALKER WEBBING CO., Providence, R. I. Filed Nov. 25, 1921.

Siltex

Particular description of goods.—Shoe Lacings, Underwear Lacings, Blouse Lacings, Galloons, Braids, Webbings, Dress Belting, and Tapes, All of Which are Made of Linen, Cotton, Silk, or Worsted; Snap Fasteners, Hairpins Not Made of Precious Metals, Safety Pins, Hooks and Eyes, and Buttons Not Made of Precious Metals.

Claims use since 1917.

Ser. No. 155,949. (CLASS 39. CLOTHING.) ALEXANDER ARONS, doing business as Wearever Hosiery Co., New York, N. Y. Filed Nov. 26, 1921.



No claim is made to the representation of the United States or to the phrase "The Pick of the Nation" apart from mark shown in drawing.

Particular description of goods.—Hosiery, Men's and Women's Sweaters, and Woolen, Cotton, Muslin, Balbriggan, and Knit Underwear.

Claims use since about Oct. 29, 1921.

Ser. No. 156,040. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WALKER WEBBING CO., Providence, R. I. Filed Nov. 28, 1921.

CAMEO

Particular description of goods.—Shoe Lacings, Underwear Lacings, Blouse Lacings, Galloons, Braids, Webbings, Dress Beltings, and Tapes, All of Which are Made of Linen, Cotton, Silk, or Worsted; Snap Fasteners, Hairpins Not Made of Precious Metals, Safety Pins, Hooks and Eyes, and Buttons Not Made of Precious Metals.

Claims use since January, 1911.

Ser. No. 156,187. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HAROLD CROOKS, doing business as Verso-Tone Medicine Co., Terre Haute, Ind. Filed Dec. 2, 1921.

Verso-Tone

Particular description of goods.—A General System Tonic and a Liniment for the Relief of Rheumatic Pains, Colds in the Chest, Lumbago, Cramps, Colic, Toothache, and Aches or Pains in General, and a Grip Tablet for the Relief of La Grippe, Cold, and Neuralgia.

Claims use since Jan. 1, 1921.

Ser. No. 156,230. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LUMMIS & Co., Philadelphia, Pa. Filed Dec. 3, 1921.

KRISP PEANUT

Drawing consists of the words "Krisp" and "Peanuts" so arranged as to present an oval-shaped design, the letter "P" being common to the two words, the whole constituting a unitary device.

Particular description of goods.—Salted Peanuts, Peanut Candies, and Peanut Butter.

Claims use since on or about Nov. 1, 1920.

Ser. No. 156,415. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RONZONI MACARONI COMPANY, INC., Long Island City, N. Y. Filed Dec. 7, 1921.

LE MIETITRICI

Particular description of goods.—Alimentary Paste Products.

Claims use since August, 1920.

Ser. No. 156,426. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WALKER WEBBING CO., Providence, R. I. Filed Dec. 7, 1921.

RADIANT

Particular description of goods.—Shoe Lacings, Underwear Lacings, Blouse Lacings, Galloons, Braids, Webbings, Dress Beltings, and Tapes, All of Which are Made of Linen, Cotton, Silk, or Worsted; Snap Fasteners, Hairpins Not Made of Precious Metals, Safety Pins, Hooks and Eyes, and Buttons Not Made of Precious Metals.

Claims use since January, 1918.

Ser. No. 156,459. (CLASS 39. CLOTHING.) THE MARCELLE CORPORATION, Philadelphia, Pa. Filed Dec. 8, 1921.

MARCELLE

Particular description of goods.—Misses' and Women's Textile Outer Garments Commercially Known as Dresses.

Claims use since Nov. 3, 1921.

Ser. No. 156,493. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) T. C. JUNGELS, doing business as Jungels Candy Company, Joliet, Ill. Filed Dec. 9, 1921.

Tombo

Particular description of goods.—Candy.

Claims use since on or about Dec. 1, 1921.

Ser. No. 156,617. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ACME SHEAR COMPANY, Bridgeport, Conn. Filed Dec. 13, 1921.

Trade-mark consists of an oval-shaped label.

Particular description of goods.—Scissors and Shears.

Claims use since November, 1921.

Ser. No. 156,628. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. & J. V. HOEGEN & COMPANY, New York, N. Y. Filed Dec. 13, 1921.

WHO IS WHO

Particular description of goods.—Marmalade.

Claims use since Nov. 1, 1921.

Ser. No. 156 659. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RISDON BURNETT STRANGE, trading as French Distributing Company, Atlanta, Ga. Filed Dec. 13, 1921.

FRENZUNEIA

Particular description of goods.—A Hair Grower and a Preparation for the Skin.

Claims use since July, 1921.

Ser. No. 156,675. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) C. BRUNO & SON, INC., New York, N. Y. Filed Dec. 14, 1921. Under ten-year proviso.

Particular description of goods.—Violins, Violin Bows, Violin Chin Rests, Violin Cases, Violin Pegs, Violin Strings, Violin Tails, Cellos, Violoncellos, Cello Bows, Violas or Tenor Violins, and Double Basses.

Claims use since the year 1891.

Ser. No. 157,085. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HEYMAN UHRY, doing business as The Itchgon Co., New Orleans, La. Filed Dec. 23, 1921.

No claim is made to the words "Itch-Gon" apart from the mark as shown on the drawing.

Particular description of goods.—A Medicine for Skin Troubles.

Claims use since Nov. 28, 1921.

Ser. No. 157,151. (CLASS 39. CLOTHING.) HIRSHFIELD SKIRT CO., St. Louis, Mo. Filed Dec. 27, 1921.

No exclusive claim to the separate words "Khaki," "Kamping," or "Klothes" apart from the mark shown.

Particular description of goods.—Certain Outing and Sporting Apparel—Namely, Coats, Suits, Blouses, Knickers, Bloomers, and Skirts for Girls and Women.

Claims use since Dec. 15, 1921.

Ser. No. 157,228. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEHN AND FINK, INC., New York, N. Y. Filed Dec. 28, 1921.

Consisting of the words "Saint-Ange."

Particular description of goods.—Cosmetics—viz, Lip Sticks, Eyebrow Pencils, Compact Powders, Rouge, and Pomades and Perfumes.

Claims use since Sept. 14, 1921.

Ser. No. 157,240. (CLASS 39. CLOTHING.) THE SUPERIOR UNDERWEAR COMPANY, Piqua, Ohio. Filed Dec. 28, 1921.

Particular description of goods.—Men's, Women's, and Children's Union Suits, Combination Suits, Undershirts, and Underdrawers Made of Both Woven and Knitted Fabric.

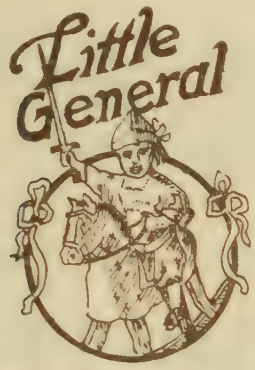
Claims use since on or about Nov. 1, 1921.

Ser. No. 157,359½. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE DANIELS AND FISHER STORES COMPANY, Denver, Colo. Filed Dec. 31, 1921.

Particular description of goods.—Face Rouge.

Claims use since November, 1919.

Ser. No. 157,484. (CLASS 39. CLOTHING.) W. T. GRANT COMPANY, New York, N. Y. Filed Jan. 4, 1922.



Particular description of goods.—Infants' Hosiery.
Claims use since Dec. 3, 1921.

Ser. No. 157,542. (CLASS 12. CONSTRUCTION MATERIALS.) THE UNITED STATES ASPHALT REFINING COMPANY, New York, N. Y. Filed Jan. 5, 1922.

KOLMEND

Particular description of goods.—Paving Materials of Asphalt.
Claims use since Dec. 22, 1921.

Ser. No. 157,616. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JANET JOHNSON, New York, N. Y. Filed Jan. 7, 1922.

JANET'S
SUPREME

Particular description of goods.—Hair Grower, Hair Tonic, and Hair Gloss.
Claims use since about January, 1916.

Ser. No. 157,688. (CLASS 37. PAPER AND STATIONERY.) FREDERICK W. PALOMBA, Waterbury, Conn. Filed Jan. 9, 1922.

Particular description of goods.—Pencils.
Claims use since Jan. 4, 1922.

Ser. No. 157,791. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARLATTE & CIE., Cambrai, Nord, France. Filed Jan. 12, 1922.

In the mark shown the words "Chicoree Bleu Argent, Extra Superieure, a Cambrai (Nord), Marque Deposee" are all disclaimed apart from the mark as shown.
Particular description of goods.—Chicory.
Claims use since Jan. 11, 1888.

Ser. No. 157,881. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BORDEAUX & NEW YORK TRADING CO., New York, N. Y. Filed Jan. 13, 1922.

Roses de Setubal

Particular description of goods.—Sardines.
Claims use since 1917.

Ser. No. 157,901. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE RADIUM RESEARCH LABORATORIES, New York, N. Y. Filed Jan. 13, 1922.

STRENGTH OF IRON
RADIONE
ENERGY OF RADIUM

No claim is made to the exclusive use of the words "Strength of Iron" and "Energy of Radium" except in the combination with the word "Radione" and the representation of rays, as shown.
Particular description of goods.—Tablets Used as a Blood Purifier and General Blood Tonic.
Claims use since Oct. 15, 1921.

Ser. No. 157,912. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAM BUTERO, Omaha, Nebr. Filed Jan. 14, 1922.

No claim is made to the exclusive use of the words "Alaska" and "Butter Scotch" apart from the mark shown on the drawing.

Particular description of goods.—Ice Cream.

Claims use since Dec. 1, 1921.

Ser. No. 157,989. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DERMATOLOGICAL LABORATORIES, Chicago, Ill. Filed Jan. 16, 1922.

Terradermalax

Particular description of goods.—A Preparation in Paste Form for Cleaning and Softening the Skin.

Claims use since Nov. 15, 1921.

Ser. No. 158,027. (CLASS 38. PRINTS AND PUBLICATIONS.) WESTINGHOUSE UNION BATTERY CO., Swissvale, Pa. Filed Jan. 16, 1922.

Particular description of goods.—Periodicals Issued Bimonthly.

Claims use since Dec. 1, 1921.

Ser. No. 158,043. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MRS. OTTO JENSEN, doing business as Mrs. Otto Jensen, Lubec, Me. Filed Jan. 17, 1922.

The word "Alumene."

Particular description of goods.—An Ointment for Pimples, Ringworm, Tetter, Eruptions, Blackheads, Irritation, Skin Humors, Scald Head, Nettle Rash, Erythema, Itch, Burns, Boils, Carbuncles, Poison Ivy, Felons, Piles, and Eczema.

Claims use since Nov. 1, 1920.

Ser. No. 158,063. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) STEINFELS FRÈRES, Vincennes, France. Filed Jan. 17, 1922.

MALACÉINE

Particular description of goods.—Soaps.

Claims use since Aug. 29, 1902.

Ser. No. 158,064. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) STEINFELS FRÈRES, Vincennes, France. Filed Jan. 17, 1922.

MONPELAS

Particular description of goods.—Soaps.

Claims use since Dec. 19, 1902.

Ser. No. 158,065. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) STEINFELS FRÈRES, Vincennes, France. Filed Jan. 17, 1922.

LUYNA

Particular description of goods.—Soaps.

Claims use since May 15, 1918.

Ser. No. 158,066. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) STEINFELS FRÈRES, Vincennes, France. Filed Jan. 17, 1922.

MAYA

Particular description of goods.— Soaps.

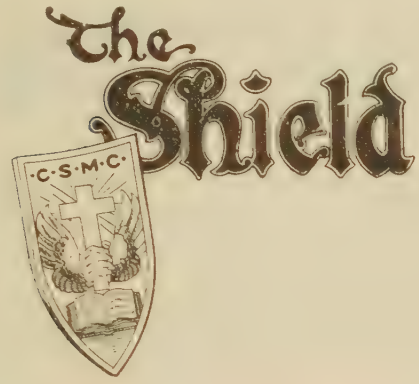
Claims use since Jan. 24, 1905.

Ser. No. 158,223. (CLASS 39. CLOTHING.) CRADDOCK TERRY COMPANY, Lynchburg, Va. Filed Jan. 21, 1922.

Particular description of goods.—Women's Leather Shoes.

Claims use since Oct. 1, 1915.

Ser. No. 158,224. (CLASS 38. PRINTS AND PUBLICATIONS.) CATHOLIC STUDENTS' MISSION CRUSADE, Cincinnati, Ohio. Filed Jan. 21, 1922.



Particular description of goods.—A Magazine Published Quarterly.
Claims use since Oct. 1, 1921.

Ser. No. 158,242. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JAMES MCCREERY & COMPANY, New York, N. Y. Filed Jan. 21, 1922.

La Gloire

Particular description of goods.—Floor Brushes and Floor Brooms, Whisk Brooms, Toothbrushes, Hairbrushes, Clothes Brushes, Hat Brushes, and Powder Puffs.
Claims use since Oct. 25, 1921.

Ser. No. 158,318. (CLASS 39. CLOTHING.) F. LEVY SHOE CO., St. Louis, Mo. Filed Jan. 23, 1922.

Particular description of goods.—Children's Shoes Made of Leather, Rubber, Fabrics, and Combinations of Materials.
Claims use since about June, 1921.

Ser. No. 158,384. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) CHARLES J. DALTON, doing business as C. J. Dalton Company, New York, N. Y. Filed Jan. 24, 1922.

DALCO

Particular description of goods.—Rubber Tires.
Claims use since Dec. 21, 1921.

Ser. No. 158,386. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE FRUIT CAKE MFG. CO., Newark, N. J. Filed Jan. 24, 1922.

FRUIT-CAKE

Particular description of goods.—A Laxative.
Claims use since Jan. 20, 1922.

Ser. No. 158,491. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM A. ROBESON, doing business as Victory Coal Save Company, Saratoga Springs, N. Y. Filed Jan. 26, 1922.

VICTORY

Particular description of goods.—Composition for the Treatment of Fuel Coal.
Claims use since Jan. 7, 1920.

Ser. No. 158,492. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHWARZ & SON, Newark, N. J. Filed Jan. 26, 1922.

SCHWARZ'S
Sugar Pops

No rights to registration are claimed on the words "Sugar" and "Pops" apart from the mark shown on the drawing.
Particular description of goods.—Candy.
Claims use since Feb. 1, 1921.

Ser. No. 158,620. (CLASS 39. CLOTHING.) KNIPE BROS., INC., Haverhill, Mass. Filed Jan. 30, 1922.

Wel-Drest

Particular description of goods.—Leather Boots and Shoes.
Claims use since Aug. 1, 1921.

Ser. No. 158,627. (CLASS 39. CLOTHING.) LUNN & SWEET COMPANY, Auburn, Me. Filed Jan. 30, 1922.

SUSPENSION

ARCH

Particular description of goods.—Leather Shoes.
Claims use since May, 1920.

Ser. No. 158,667. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) AVERILL MFG. CORP., New York, N. Y. Filed Jan. 31, 1922.

Applicant hereby disclaims the representation of a doll and the words "Talking and Walking Doll" apart from the mark shown in the drawing.
Particular description of goods.—Dolls.
Claims use since Oct. 11, 1921.

Ser. No. 158,694. (CLASS 38. PRINTS AND PUBLICATIONS.) YALE UNIVERSITY PRESS, New York, N. Y. Filed Jan. 31, 1922.

THE
CHRONICLES
OF
AMERICA

Particular description of goods.—A Series of Volumes of Epochal History of the United States Published from Time to Time.
Claims use since August, 1918.

Ser. No. 158,730. (CLASS 38. PRINTS AND PUBLICATIONS.) STAR COMPANY, New York, N. Y. Filed Feb. 1, 1922.

New York American Merchandiser

Particular description of goods.—A Newspaper Section.
Claims use since January, 1922.

Ser. No. 158,946. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE NATIONAL MARKING MACHINE COMPANY, Cincinnati, Ohio. Filed Feb. 6, 1922.

NUTRO

Which is lined for the color red.
Particular description of goods.—Chemical Preparation, Which is a Neutralizing and Energizing Agent When Added to Soap Contained in Wet Wash, Scrubbing, Cleansing, and the Like for Laundries, Household, Hotels, Etc.
Claims use since Jan. 1, 1922.

Ser. No. 159,018. (CLASS 39. CLOTHING.) WM. FILENE'S SONS COMPANY, Boston, Mass. Filed Feb. 8, 1922.

ARCH-COMFORT

Particular description of goods.—Leather Boots and Shoes.
Claims use since Jan. 10, 1922.

Ser. No. 159,040. (CLASS 39. CLOTHING.) WALTER H. MORE CO., INC., New York, N. Y. Filed Feb. 8, 1922.

MORESHU

Particular description of goods.—Shoes Made of All Leather or Shoes Having a Leather Upper and a Rubber Sole.
Claims use since May 6, 1921.

Ser. No. 159,053. (CLASS 39. CLOTHING.) GEORGE E. PEIRCE, doing business as Thomas F. Peirce & Son, Providence, R. I. Filed Feb. 8, 1922.

TENTO

Particular description of goods.—Shoes Which are Made of Leather, Rubber, and Fabric and Combinations of the Same.
Claims use since Feb. 4, 1922.

Ser. No. 159,169. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE MATCHLESS METAL POLISH CO., Chicago, Ill., and Glen Ridge, N. J. Filed Feb. 10, 1922.

M.M. TRADE — X — MARK P.CO. NEW YORK CHICAGO

No claim being made to the words "Trade Mark," "New York," and "Chicago" apart from the mark shown.

Particular description of goods.—Buffing and Polishing Compositions.

Claims use since January, 1892.

Ser. No. 159,170. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) NATIONAL ENAMELING & STAMPING CO., New York, N. Y. Filed Feb. 10, 1922.

ROCKWEAVE

Particular description of goods.—Woven Wicks.

Claims use since Oct. 1, 1919.

Ser. No. 159,312. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) HIRSCHL & BENDHEIM, Washington, Mo. Filed Feb. 14, 1922.

H&B

Particular description of goods.—Tobacco Smoking Pipes.

Claims use since Jan. 1, 1873.

Ser. No. 159,313. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) HIRSCHL & BENDHEIM, Washington, Mo. Filed Feb. 14, 1922.

TOASTED

Particular description of goods.—Tobacco Smoking Pipes.

Claims use since January, 1922.

Ser. No. 159,316. (CLASS 38. PRINTS AND PUBLICATIONS.) INTERNATIONAL TELEPHONE AND TELEGRAPH CORPORATION, New York, N. Y. Filed Feb. 14, 1922.

INTERNATIONAL TELEPHONE & TELEGRAPH CORPORATION AND ASSOCIATED COMPANIES

No claim being made for the words "And Associated Companies" apart from the mark shown.

Particular description of goods.—A Periodical Published Monthly Devoted to the Telephone and Telegraph Industry.

Claims use since October, 1921.

Ser. No. 159,321. (CLASS 33. GLASSWARE.) MAX H. KRICH, doing business as Krich Light & Electric Company, Newark, N. J. Filed Feb. 14, 1922.

MONALITE

Particular description of goods.—Glass Lamp Shades.

Claims use since Jan. 26, 1922.

Ser. No. 159,437. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TURNER & WALLS, New York, N. Y. Filed Feb. 16, 1922.

ARWOOL

Particular description of goods.—Wool and Artificial Silk Piece Goods and Combinations of the Same.
Claims use since Jan. 30, 1922.

Ser. No. 159,460. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) FLORENCE MANUFACTURING COMPANY, Northampton, Mass. Filed Feb. 17, 1922.

DE LUXE

Particular description of goods.—Toothbrushes.
Claims use since Nov. 15, 1908.

Ser. No. 159,600. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEHN AND FINK, INC., New York, N. Y. Filed Feb. 20, 1922.

Chlorophen

Particular description of goods.—Antiseptics.
Claims use since Jan. 25, 1922.

Ser. No. 159,614. (CLASS 37. PAPER AND STATIONERY.) WILLIAM J. PALMER, Los Angeles, Calif. Filed Feb. 20, 1922.

EXCHEQUER

Guards Your Bank Account

No claim being made to the words "Guards Your Bank Account" apart from the mark as shown.
Particular description of goods.—Combined Check and Account Books.
Claims use since Sept. 11, 1920.

Ser. No. 159,619. (CLASS 32. FURNITURE AND UPHOLSTERY.) ROYAL EASY CHAIR CORPORATION, Sturgis, Mich. Filed Feb. 20, 1922.

Royal Easy Bed-Davenports

No claim being made to the words "Easy Bed Davenports" apart from the mark shown.
Particular description of goods.—Davenports.
Claims use since August, 1921.

Ser. No. 159,664. (CLASS 39. CLOTHING.) NETTLETON SHOPS, INC., Syracuse, N. Y. Filed Feb. 21, 1922.

AENCO

Particular description of goods.—Shoes Made of Leather.
Claims use since May 28, 1921.

Ser. No. 159,673. (CLASS 37. PAPER AND STATIONERY.) THE WARREN MANUFACTURING COMPANY, New York, N. Y. Filed Feb. 21, 1922.

RIEGELS

Jewel Brand

No claim being made to the word "Brand" apart from the mark shown.
Particular description of goods.—Glassine Paper.
Claims use since 1911.

Ser. No. 159,708. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) JEWETT MANUFACTURING CORPORATION, Newark, N. J. Filed Feb. 23, 1922.

CLIMAX

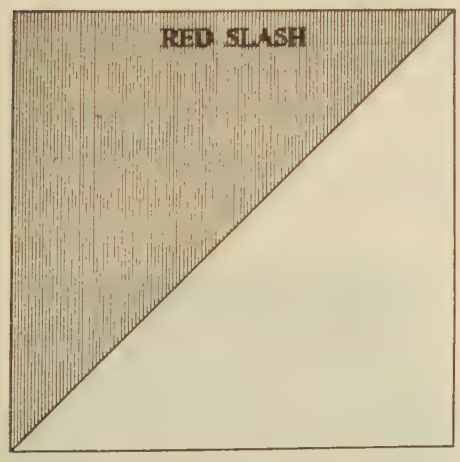
Particular description of goods.—Radio Signaling—Namely, Radio Receivers, Amplifiers, and Detectors.
Claims use since Aug. 20, 1921.

Ser. No. 159,727. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) SCHLOSS MANUFACTURING CO., San Francisco, Calif. Filed Feb. 23, 1922.

EMERALD

Particular description of goods.—Fruit-Jar Rings.
Claims use since Jan. 1, 1912.

Ser. No. 159,728. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) SCHLOSS MANUFACTURING CO., San Francisco, Calif. Filed Feb. 23, 1922.



The trade-mark comprising a rectangular field diagonally divided into triangular fields colored red and white, respectively.
Particular description of goods.—Fruit-Jar Rings.
Claims use since Jan. 1, 1912.

Ser. No. 159,729. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) SCHLOSS MANUFACTURING CO., San Francisco, Calif. Filed Feb. 23, 1922.

DIAMOND

Particular description of goods.—Fruit-Jar Rings.
Claims use since Jan. 1, 1912.

Ser. No. 159,730. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) SCHLOSS MANUFACTURING CO., San Francisco, Calif. Filed Feb. 23, 1922.

Daisy

Particular description of goods.—Fruit-Jar Rings.
Claims use since Jan. 1, 1912.

Ser. No. 159,731. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) SCHLOSS MANUFACTURING CO., San Francisco, Calif. Filed Feb. 23, 1922.

PEONY

Particular description of goods.—Fruit-Jar Rings.
Claims use since Jan. 1, 1912.

Ser. No. 159,732. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) SCHLOSS MANUFACTURING CO., San Francisco, Calif. Filed Feb. 23, 1922.

ASTER

Particular description of goods.—Fruit-Jar Rings.
Claims use since Jan. 1, 1912.

Ser. No. 159,735. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) VITALIS PRODUCTS, INCORPORATED, Los Angeles, Calif. Filed Feb. 23, 1922.

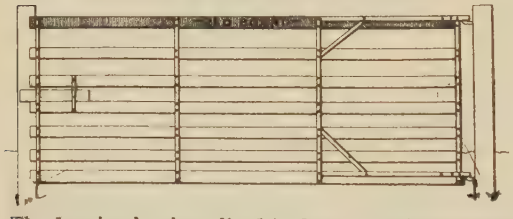
Particular description of goods.—Batteries.
Claims use since Oct. 1, 1921.

Ser. No. 159,762. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES A. MACDERMID, Boston, Mass. Filed Feb. 24, 1922.

TRYMACS

Particular description of goods.—Separating Solution for Dental Plaster Work.
Claims use since July 10, 1921.

Ser. No. 159,808. (CLASS 12. CONSTRUCTION MATERIALS.) MONMOUTH GATE & MANUFACTURING COMPANY, Monmouth, Ill. Filed Feb. 25, 1922.



The drawing has been lined to denote a red background. No claim is made to the presentation of a gate apart from the mark as shown.
Particular description of goods.—Gates Constructed of Wood and Steel.
Claims use since May 1, 1921.

Ser. No. 159,809. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALFONSO MAROTTA, East Boston, Mass. Filed Feb. 25, 1922.

BICARTRATE

Particular description of goods.—A Remedy for Indigestion.
Claims use since Feb. 15, 1922.

Ser. No. 159,857. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) WALTER K. EARLE, doing business as American Fruit Products Company, Chicago, Ill. Filed Feb. 27, 1922.

Avalon

Particular description of goods.—Flavoring Material in the Nature of Fruit Sirup for Making a Nonalcoholic Maltless Fruit Beverage by Combining with Plain or Charged Water and the Nonalcoholic Fruit Beverage Sold as a Soft Drink Made Therefrom.
Claims use since June 1, 1921.

Ser. No. 159,935. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHERRY BLOSSOM MFG. CO., Newton, Iowa. Filed Feb. 28, 1922.

Peach Bloom

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Nov. 15, 1914.

Ser. No. 159,936. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHERRY BLOSSOM MFG. CO., Newton, Iowa. Filed Feb. 28, 1922.

Pear Bloom

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Nov. 15, 1914.

Ser. No. 159,937. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHERRY BLOSSOM MFG. CO., Newton, Iowa. Filed Feb. 28, 1922.

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Nov. 15, 1914.

Ser. No. 159,939. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHERRY BLOSSOM MFG. CO., Newton, Iowa. Filed Feb. 28, 1922.

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Nov. 15, 1914.

Ser. No. 159,947. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHERRY BLOSSOM MFG. CO., Newton, Iowa. Filed Feb. 28, 1922.

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Nov. 15, 1914.

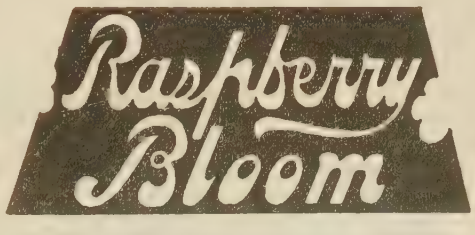
Ser. No. 159,948. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHERRY BLOSSOM MFG. CO., Newton, Iowa. Filed Feb. 28, 1922.

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Nov. 15, 1914.

Ser. No. 159,952. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHERRY BLOSSOM MFG. CO., Newton, Iowa. Filed Feb. 28, 1922.

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Nov. 15, 1914.

Ser. No. 159,953. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHERRY BLOSSOM MFG. CO., Newton, Iowa. Filed Feb. 28, 1922.



Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Nov. 15, 1914.

Ser. No. 160,010. (CLASS 17. TOBACCO PRODUCTS.) GREAT LAKES CIGAR MFG. CO., Detroit, Mich. Filed Mar. 1, 1922.

The picture shown in trade-mark is a portrait of Theodore Roosevelt, deceased.

Particular description of goods.—Cigars.

Claims use since May 23, 1919.

Ser. No. 160,012. (CLASS 37. PAPER AND STATIONERY.) INTERNATIONAL MAILING TUBE & WRAPPER CO., New York and Brooklyn, N. Y. Filed Mar. 1, 1922.

ADJUSTORAP.

Particular description of goods.—Mailing Wrappers.

Claims use since Dec. 1, 1921.

Ser. No. 160,086. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE SOUTHERN CALIFORNIA SUPPLY COMPANY, Los Angeles, Calif. Filed Mar. 2, 1922.

SO-CAS-CO

Particular description of goods.—A Nonalcoholic, Maltless Beverage Sold as a Soft Drink, and Extracts, Flavors, and Colors for Making the Same.

Claims use since June 1, 1921.

Ser. No. 160,097. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Mar. 2, 1922.

EARL

Particular description of goods.—Mattresses.

Claims use since Nov. 6, 1909.

Ser. No. 160,182. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE CHOC-LO CO., INC., New York, N. Y. Filed Mar. 4, 1922.

Choc-Lo

Particular description of goods.—Nonalcoholic Beverage—Namely, a Carbonated Maltless Beverage Sold as a Soft Drink.

Claims use since June, 1919.

Ser. No. 160,202. (CLASS 38. PRINTS AND PUBLICATIONS.) NEW YORK TRIBUNE, INC., New York, N. Y. Filed Mar. 4, 1922.

Tales of a Wayside Tee

Particular description of goods.—Title of a Newspaper Column.

Claims use since Feb. 27, 1916.

Ser. No. 160,333. (CLASS 37. PAPER AND STATIONERY.) J. C. BLAIR COMPANY, Huntingdon, Pa. Filed Mar. 8, 1922.

The predominating color of the mark as used is red, but this feature of color is not deemed essential.

Particular description of goods.—Paper for Writing and Printing Purposes, Drawing Paper, Pencil Paper, Envelopes for Correspondence, Writing Tablets, Pencil Tablets, Drawing Tablets, Spelling Tablets, and Blank Books.

Claims use since Jan. 17, 1922.

Ser. No. 160,508. (CLASS 32. FURNITURE AND UPHOLSTERY.) FRANCIS X. STAHL, Cincinnati, Ohio. Filed Mar. 10, 1922.

The words "The new" and "Cincinnati" appearing on the drawing, being either descriptive or geographical, are hereby disclaimed for the purpose of registration apart from the mark shown.

Particular description of goods.—Phonograph Cabinets.
Claims use since Jan. 10, 1920.

Ser. No. 160,611. (CLASS 37. PAPER AND STATIONERY.) FRED A. KOENIG, Chicago, Ill. Filed Mar. 13, 1922.

Honest John

Particular description of goods.—Blank Account Books.
Claims use since Mar. 6, 1922.

Ser. No. 160,622. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RUDOLF NITCH, doing business as Little Wonder Electric Heater Company, Cleveland, Ohio. Filed Mar. 13, 1922.

LITTLE WONDER

Particular description of goods.—Electric Heaters for Printing Presses.
Claims use since November, 1919.

Ser. No. 160,742. (CLASS 37. PAPER AND STATIONERY.) BROWN & BIGELOW, St Paul, Minn. Filed Mar. 16, 1922.

Remembrance Advertising

Particular description of goods.—Blotters, Pencils, and Memorandum Pads.
Claims use since Mar. 1, 1920.

Ser. No. 160,749. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CENTRAL ELECTRIC COMPANY, Chicago, Ill. Filed Mar. 16, 1922.

ATTALITE

Particular description of goods.—Lighting Fixtures.
Claims use since Feb. 15, 1922.

Ser. No. 160,769. (CLASS 37. PAPER AND STATIONERY.) J. MEYERS STATIONERY & PRINTING CO. INC., New York, N. Y. Filed Mar. 16, 1922.

BENCH & BAR

Particular description of goods.—Legal Paper, Letter Paper, Writing Pads, Notebooks, Blank Books, Mailing Envelopes, Rubber or Rubber-Composition Erasers, Pencils, and Rulers.
Claims use since on or about the month of December, 1914.

Ser. No. 160,872. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) COLUMBIAN BRONZE CORPORATION, Freeport and New York, N. Y. Filed Mar. 18, 1922.

C-Y-C

Particular description of goods.—Self-Contained Electric Generator Apparatus.
Claims use since Nov. 10, 1920.

Ser. No. 160,909. (CLASS 37. PAPER AND STATIONERY.) WALTHER & COMPANY, New York, N. Y. Filed Mar. 18, 1922.

WALCO

Particular description of goods.—Surface-Coated, Roll-Printed, Metal-Coated, and Embossed Paper.
Claims use since Dec. 15, 1920.

Ser. No. 160,949. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) JEWETT MOTORS, Detroit, Mich. Filed Mar. 20, 1922.

JEWETT

Particular description of goods.—Automobiles.
Claims use since the middle of December, 1921.

Ser. No. 160,989. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ALLIED FACTORIES CORPORATION, Kansas City, Mo. Filed Mar. 21, 1922.

Servubest

Particular description of goods.—Toy Vehicles—Namely, Wagons.
Claims use since about Feb. 1, 1922.

Ser. No. 160,998. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DRIVER-HARRIS COMPANY, Harrison, N. J. Filed Mar. 21, 1922.

VERIFLEX

Particular description of goods.—Heater Cords.
Claims use since Feb. 24, 1922.

Ser. No. 160,999. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ESSEX SPECIALTY CO., INC., Berkeley Heights, N. J. Filed Mar. 21, 1922.

AEROPHONE

Particular description of goods.—Wireless-Telephone Receiving Sets and Parts Thereof.
Claims use since Mar. 2, 1922.

Ser. No. 161,010. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MONITOR CONTROLLER COMPANY, Baltimore, Md. Filed Mar. 21, 1922.

Thermaload

Particular description of goods.—Electrical Switches.
Claims use since Dec. 7, 1921.

Ser. No. 161,027. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) BELASCO MECHANICS CORPORATION, New York, N. Y. Filed Mar. 22, 1922.

Particular description of goods.—Apparatus for Playing a Game in Which a Board or Table and Missiles or Playing Pieces are Employed.
Claims use since Jan. 25, 1922.

Ser. No. 161,080. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MAX GRUMBACHER, New York, N. Y. Filed Mar. 22, 1922.

"SIR RAEBURN"

Particular description of goods.—Artists' Brushes.
Claims use since January, 1912.

Ser. No. 161,081. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MAX GRUMBACHER, New York, N. Y. Filed Mar. 22, 1922.

Leonardo da Vinci

Particular description of goods.—Artists' Brushes.
Claims use since January, 1910.

Ser. No. 161,082. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MAX GRUMBACHER, New York, N. Y. Filed Mar. 22, 1922.

GILT EDGE

Particular description of goods.—Artists' Brushes.
Claims use since February, 1905.

Ser. No. 161,083. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MAX GRUMBACHER, New York, N. Y. Filed Mar. 22, 1922.

MURILLO

The word "Murillo" is the name of the Spanish artist, deceased 1682.

Particular description of goods.—Artists' Brushes.

Claims use since January, 1910.

Ser. No. 161,084. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MAX GRUMBACHER, New York, N. Y. Filed Mar. 22, 1922.

VELASQUEZ

The word "Velasquez" is the name of the Spanish artist, deceased 1660.

Particular description of goods.—Artists' Brushes.

Claims use since January, 1910.

Ser. No. 161,087. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MAX GRUMBACHER, New York, N. Y. Filed Mar. 22, 1922.

DIXIE

Particular description of goods.—Artists' Brushes.

Claims use since Jan. 1, 1905.

Ser. No. 161,088. (CLASS 29. BROOMS, BRUSHES AND DUSTERS.) MAX GRUMBACHER, New York, N. Y. Filed Mar. 22, 1922.

YANKEE

Particular description of goods.—Artists' Brushes.

Claims use since Jan. 1, 1910.

Ser. No. 161,091. (CLASS 29. BROOMS, BRUSHES AND DUSTERS.) MAX GRUMBACHER, New York, N. Y. Filed Mar. 22, 1922.

ROMNEY

The word "Romney" is the name of an English artist, deceased 1902.

Particular description of goods.—Artists' Brushes.

Claims use since Jan. 1, 1921.

Ser. No. 161,092. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MAX GRUMBACHER, New York, N. Y. Filed Mar. 22, 1922.

CARDCRAFT

Particular description of goods.—Artists' Brushes.

Claims use since January, 1910.

Ser. No. 161,093. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MAX GRUMBACHER, New York, N. Y. Filed Mar. 22, 1922.

GAINSBOROUGH

The word "Gainsborough" is the name of the noted English artist, deceased 1788.

Particular description of goods.—Artists' Brushes.

Claims use since Jan. 1, 1921.

Ser. No. 161,094. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MAX GRUMBACHER, New York, N. Y. Filed Mar. 22, 1922.

REMBRANDT

The mark "Rembrandt" refers to the celebrated Dutch painter, deceased 1669.

Particular description of goods.—Artists' Brushes.

Claims use since Jan. 1, 1905.

Ser. No. 161,188. (CLASS 32. FURNITURE AND UPHOLSTERY.) IDALE L. HADLEY, Hartford, Conn. Filed Mar. 24, 1922.

Hangall

Particular description of goods.—Bed Wardrobes and Bedsteads.

Claims use since Dec. 1, 1921.

Ser. No. 161,405. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BIRTMAN ELECTRIC COMPANY, Chicago, Ill. Filed Mar. 29, 1922.

MAGNETIC

Particular description of goods.—Electric Vacuum Cleaners.

Claims use since Jan. 19, 1922.

Ser. No. 161,437. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE INDIA RUBBER, GUTTA PERCHA & TELEGRAPH WORKS COMPANY LIMITED, London, England. Filed Mar. 29, 1922.

"FLEXICORD"

Particular description of goods.—India-Rubber Tires.
Claims use since May 11, 1921.

Ser. No. 161,466. (CLASS 39. CLOTHING.) WORTH, INC., New York, N. Y. Filed Mar. 29, 1922.

Worthley

Particular description of goods.—Frocks, Dresses, Gowns, Costumes, Suits, Furs Used as Wearing Apparel, Two-Piece Underwear, Union Suits, Hose and Half Hose of All Textures, One and Two Piece Bathing Suits, Sweaters; Gloves of Leather, Fabric, and Combination of Leather and Fabric; Hose Supporters, Shawls, Scarfs, Athletic Suits, Pyjamas, Nightgowns, Kimonos, Bath Robes, Jackets, Mufflers, Reefers, Belts, Coats, Hats, Caps, Slippers, and Shoes of Leather, Rubber, Fabric, or Combinations Thereof; Bloomers, Petticoats, Tights, Pantalets, Chemise, Camisoles, Brassières, Corsets, Corset Covers, Bandeaux, Negligee, Sleeping Jackets, Dressing Gowns, Sacks, Breakfast Robes, Blouses, Neckties, Capes, Wraps, Vests, Sport Suits and Skirts and Leggings.
Claims use since Jan. 3, 1922.

Ser. No. 161,499. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE MAGNAVOX COMPANY, Oakland, Calif. Filed Mar. 30, 1922.

MINIVOX

Particular description of goods.—Telephone Receiving Sets and Radio Receiving Sets.
Claims use since Mar. 1, 1922.

Ser. No. 161,500. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE MAGNAVOX COMPANY, Oakland, Calif. Filed Mar. 30, 1922.

AMPLIVOX

Particular description of goods.—Telephone Receiving Sets and Radio Receiving Sets.
Claims use since Mar. 1, 1922.

Ser. No. 161,501. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE MAGNAVOX COMPANY, Oakland, Calif. Filed Mar. 30, 1922.

RADIOVOX

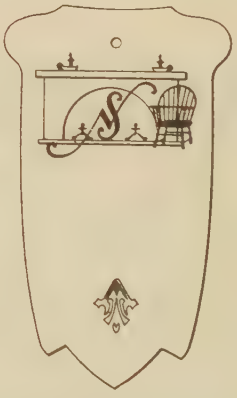
Particular description of goods.—Telephone Receiving Sets and Radio Receiving Sets.
Claims use since Mar. 1, 1922.

Ser. No. 161,502. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE MAGNAVOX COMPANY, Oakland, Calif. Filed Mar. 30, 1922.

ELECTROVOX

Particular description of goods.—Telephone Receiving Sets and Radio Receiving Sets.
Claims use since Mar. 1, 1922.

Ser. No. 161,504. (CLASS 32. FURNITURE AND UPHOLSTERY.) NICHOLS & STONE COMPANY, Gardner, Mass. Filed Mar. 30, 1922.



Particular description of goods.—Household, Office, and Factory Chairs.
Claims use since Jan. 1, 1922.

Ser. No. 161,524. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) BLEKRE TIRE & RUBBER COMPANY, St. Paul, Minn. Filed Mar. 31, 1922.

BLECO

Particular description of goods.—Automobile Tires and Tubes of Rubber.
Claims use since Mar. 17, 1922.

Ser. No. 161,551. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HILTON COLLINS CO. INCORPORATED, Louisville, Ky. Filed Mar. 31, 1922.

Arnold J. Statz

Trade-mark being a facsimile signature of Arnold J. Statz.
Particular description of goods.—Baseball Bats.
Claims use since Mar. 16, 1922.

Ser. No. 161,552. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HILTON COLLINS CO., INCORPORATED, Louisville, Ky. Filed Mar. 31, 1922.

Clarence F. Mueller

Trade-mark is a facsimile signature of Clarence F. Mueller.
Particular description of goods.—Baseball Bats.
Claims use since Jan. 20, 1922.

Ser. No. 161,655. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) LOUIS D. SINGER, trading as The Singerine Flower Co., Harrodsburg, Ky. Filed Apr. 1, 1922.

Singerine

Particular description of goods.—Artificial Wreaths and Floral Decorations.
Claims use since July 1, 1921.

Ser. No. 161,664. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WESTINGHOUSE UNION BATTERY CO., Swissvale, Pa. Filed Apr. 1, 1922.

BWCO

Particular description of goods.—Battery Chargers and Electrical Rectifiers.
Claims use since Mar. 10, 1922.

Ser. No. 161,784. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MAGNUS ELECTRIC CO. INC., New York, N. Y. Filed Apr. 5, 1922.

MAGNUS

Particular description of goods.—Electrical Plugs, Attachment Plugs, Caps, Cord Connectors, and Heater Cord Sets.
Claims use since about December, 1919.

Ser. No. 161,921. (CLASS 45. BEVERAGES, NONALCOHOLIC.) NATHANIEL L. HALL, Norfolk, Va. Filed Apr. 8, 1922.

Ditto

Particular description of goods.—Nonalcoholic, Maltless Beverages Sold as Soft Drinks and Sirup for Making the Same and Sirup.
Claims use since on or about Mar. 1, 1922.

Ser. No. 161,995. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) PHILIP S. HARPER, Chicago, Ill. Filed Apr. 10, 1922.

DomEcon

Particular description of goods.—Gas Burners.
Claims use since Mar. 18, 1922.

Ser. No. 162,025. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MORSE MANUFACTURING COMPANY, INC., Newark, N. J. Filed Apr. 10, 1922.

MORSE OPHONE

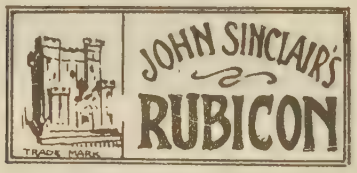
Particular description of goods.—Radio Receiving Apparatus.
Claims use since Mar. 31, 1922.

Ser. No. 162,052. (CLASS 45. BEVERAGES, NONALCOHOLIC.) THE QUEEN CITY BOTTLING CO., Cincinnati, Ohio. Filed Apr. 10, 1922.

KISS

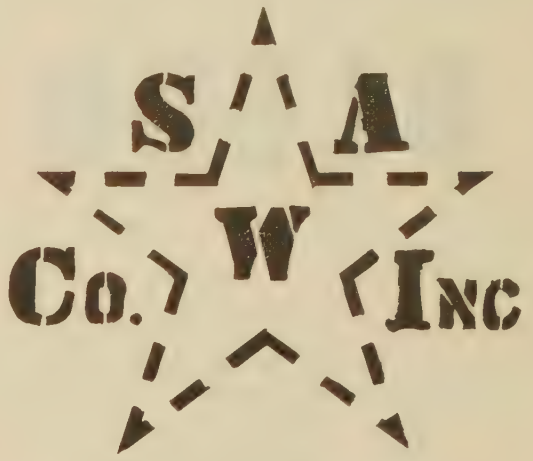
Particular description of goods.—A Nonintoxicating, Nonalcoholic, Noncereal, Maltless Fruit Beverage Sold as a Soft Drink and Sirups Used in the Preparation of Same.
Claims use since Dec. 10, 1921.

Ser. No. 162,142. (CLASS 17. TOBACCO PRODUCTS.) JOHN SINCLAIR LTD., Newcastle-on-Tyne, England. Filed Apr. 11, 1922.



No claim is made to the words "Trade Mark" apart from mark shown on drawing.
Particular description of goods.—Smoking Tobacco.
Claims use since July 8, 1898.

Ser. No. 162,151. (CLASS 43. THREAD AND YARN.) S. A. WENGER & CO. INC., New York, N. Y. Filed Apr. 11, 1922.



Particular description of goods.—Thrown Silk.
Claims use since Mar. 21, 1922.

Ser. No. 162,176. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) H. AND A. ACCESSORIES, Chicago, Ill. Filed Apr. 12, 1922.

"HOT FLAMES"

Particular description of goods.—A Spark-Plug Extension.
Claims use since Feb. 22, 1922.

Ser. No. 162,277. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa. Filed Apr. 13, 1922.

AERIOLA SR.

Particular description of goods.—Radio Telephone and Telegraph Transmitters and Receivers, Antenna Outfits, Head Phones, Loud Speakers, Tuners, Amplifiers, and Detectors.
Claims use since Dec. 10, 1921.

Ser. No. 162,321. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ST. LOUIS BRASS MFG. CO., St. Louis, Mo. Filed Apr. 14, 1922.

MAGIC-LITE

Particular description of goods.—Electric-Lighting Fixtures.
Claims use since Mar. 4, 1922.

Ser. No. 162,348. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ROUZETTE COMPANY, Cincinnati, Ohio. Filed Apr. 15, 1922.

ROUZETTE

Particular description of goods.—A Parlor Table Game in the Nature of Roulette.
Claims use since Mar. 28, 1922.

Ser. No. 162,364. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE WATERBURY METAL WARES CO., Waterbury, Conn. Filed Apr. 15, 1922.

"Practi-Lite"

Particular description of goods.—Portable Electric Lamps.
Claims use since Oct. 1, 1921.

Ser. No. 162,385. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del. Filed Apr. 17, 1922.

DUPONT
MINEFAB

Particular description of goods.—Waterproofed Fabrics.
Claims use since Oct. 13, 1921.

Ser. No. 162,518. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) STRAUSE GAS IRON CO., Philadelphia, Pa. Filed Apr. 18, 1922.

IWANTU

Particular description of goods.—Electric Irons.
Claims use since Apr. 10, 1922.

Ser. No. 162,610. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) COZY BABY CARRIAGE COMPANY, Minneapolis, Minn. Filed Apr. 20, 1922.

Kozekar

Particular description of goods.—Baby Carriages, Baby-Carrying Baskets or Bodies, and Automobile Baby Carriers.
Claims use since on or about Nov. 20, 1921.

Ser. No. 162,688. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) LUBBERS & BELL MFG. CO., Clinton, Iowa. Filed Apr. 21, 1922.

AJAX

Particular description of goods.—Fly Swatters.
Claims use since Aug. 1, 1919.

Ser. No. 162,689. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) LUBBERS & BELL MFG. CO., Clinton, Iowa. Filed Apr. 21, 1922.

SAMSON

Particular description of goods.—Fly Swatters.
Claims use since Aug. 1, 1919.

Ser. No. 162,768. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) REES DAVIS TOY COMPANY, Chicago, Ill. Filed Apr. 22, 1922.

MITZI

Particular description of goods.—Dolls.
Claims use since Mar. 29, 1922.

Ser. No. 162,772. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) J. HUNGERFORD SMITH GRAPE JUICE Co., doing business as Michigan Grape Products Co., Lawton, Mich. Filed Apr. 22, 1922.

Luxury

Particular description of goods.—Grape Juice.
Claims use since Mar. 1, 1922.

Ser. No. 162,823. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE KALAMAZOO SLED COMPANY, Kalamazoo, Mich. Filed Apr. 24, 1922.

CHAMPION

Particular description of goods.—Hand Sleds.
Claims use since 1910.

Ser. No. 163,115. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ROBSON & BOWEN, New York, N. Y. Filed Apr. 29, 1922.

BOOKIE

Particular description of goods.—Racing Games.
Claims use since Apr. 21, 1922.

Ser. No. 163,262. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE EAGLE RUBBER CO., Ashland, Ohio, and New York, N. Y. Filed May 3, 1922.

CHECKER

Particular description of goods.—Bouncing Balls.
Claims use since Dec. 15, 1921.

Ser. No. 163,312. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) LUBBERS & BELL MFG. Co., Clinton, Iowa. Filed May 4, 1922.

BINGO

Particular description of goods.—Fly Swatters.
Claims use since Sept. 1, 1914.

Ser. No. 163,329. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE DAYTON COMPANY, Minneapolis, Minn. Filed May 4, 1922.

THE SPINK

Particular description of goods.—Golf Balls.
Claims use since Apr. 26, 1922.

Ser. No. 163,405. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) FRANK W. LANNING, doing business as Harvard Garment Company, Harvard, Ill. Filed May 5, 1922.

Happy Jane

Particular description of goods.—Cloth Dolls and Doll Dresses.
Claims use since Sept. 1, 1920.

Ser. No. 163,539. (CLASS 43. THREAD AND YARN.) GEORGE S. RICH, doing business as Geo. S. Rich Co., Boston, Mass. Filed May 8, 1922.

RICH YARN

Particular description of goods.—Silk, Wool, Cotton, Silk and Wool, Linen, and Worsted Yarns.
Claims use since Mar. 15, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

JUNE 13, 1922.

155,916. STAIR TREADS AND DOOR SADDLES. AMERICAN ABRASIVE METALS COMPANY, New York, N. Y.
Filed September 13, 1921. Serial No. 152,880. PUBLISHED FEBRUARY 14, 1922.

155,917. NONELECTRIC VACUUM CLEANERS. AMERICAN BRUSH COMPANY, Washington, D. C.
Filed November 25, 1921. Serial No. 155,850. PUBLISHED FEBRUARY 28, 1922.

155,918. CERTAIN AERIAL TRAMWAYS AND TRAMWAY CARRIERS AND TOOLS AND SHAFTING. THE AMERICAN STEEL & WIRE COMPANY OF NEW JERSEY, Cleveland, Ohio.
Filed December 1, 1921. Serial No. 156,137. PUBLISHED FEBRUARY 28, 1922.

155,919. SMOKING AND CHEWING TOBACCO AND CIGARETTES. THE AMERICAN TOBACCO COMPANY, New York, N. Y.
Filed November 10, 1919. Serial No. 124,709. PUBLISHED MARCH 14, 1922.

155,920. CERTAIN ARTICLES OF CLOTHING. AMERICAN WHOLESALE CORPORATION (BALTIMORE BARGAIN HOUSE), Baltimore and Cumberland, Md.
Filed August 13, 1920. Serial No. 136,056. PUBLISHED MARCH 7, 1922.

155,921. HATS FOR WOMEN. ANNA C. AMMENHEUSER, New York, N. Y.
Filed May 13, 1921. Serial No. 147,651. PUBLISHED MARCH 7, 1922.

155,922. LUMBER. ANDERSON-TULLY COMPANY, Memphis, Tenn.
Filed November 8, 1921. Serial No. 155,134. PUBLISHED FEBRUARY 7, 1922.

155,923. CEMENT TILES FOR WALLS AND FLOORS. ANGELO REPETTO COMPANY, Detroit, Mich.
Filed May 21, 1921. Serial No. 148,014. PUBLISHED FEBRUARY 28, 1922.

155,924. REINFORCED-CONCRETE TIES FOR RAILWAYS. THE ASHLEY RAILWAY SAFETY TIE AND CONSTRUCTION CORPORATION, New York, N. Y.
Filed July 19, 1920. Serial No. 135,124. PUBLISHED DECEMBER 27, 1921.

155,925. RECORD-SHEET HOLDER TO BE ATTACHED TO AUTOMOBILE STEERING WHEELS AND BLANK RECORD SHEETS FOR SAID HOLDER UPON WHICH RECORDS MAY BE WRITTEN. ROBERT C. AULMANN, Los Angeles, Calif.
Filed September 14, 1921. Serial No. 152,907. PUBLISHED MARCH 14, 1922.

155,926. LADIES' AND MISSES' DRESSES. BAUM, KRAVAT & BAUM, New York, N. Y.
Filed July 25, 1921. Serial No. 150,886. PUBLISHED JANUARY 31, 1922.

155,927. COAL. BEATTY COAL COMPANY, Kansas City, Mo.
Filed October 12, 1920. Serial No. 138,206. PUBLISHED MARCH 7, 1922.

155,928. SWEET TURNIP AND BEET SEED. DR. FRIEDRICH BERGMANN G. M. B. H., Querfurt, Prussia, Germany.
Filed November 30, 1920. Serial No. 140,426. PUBLISHED DECEMBER 27, 1921.

155,929. CANDY CONFECTIONS. STANLEY C. BIAS, Brooklyn, N. Y.
Filed December 4, 1919. Serial No. 125,563. PUBLISHED MARCH 14, 1922.

155,930. MEN'S AND BOYS' HATS. EDWARD W. BILL, New York, N. Y.
Filed April 30, 1921. Serial No. 147,002. PUBLISHED MARCH 7, 1922.

155,931. MEN'S AND BOYS' HATS. EDWARD W. BILL, New York, N. Y.
Filed April 30, 1921. Serial No. 147,004. PUBLISHED MARCH 7, 1922.

155,932. CERTAIN NAMED CONSTRUCTION MATERIALS. BLOEDEL DONOVAN LUMBER MILLS, Seattle and Bellingham, Wash.
Filed December 13, 1920. Serial No. 140,983. PUBLISHED FEBRUARY 21, 1922.

155,933. ENGINE AND MACHINE BEARINGS AND BUSHINGS. BOUND BROOK OIL-LESS BEARING COMPANY, Bound Brook, N. J.
Filed December 1, 1921. Serial No. 156,143. PUBLISHED FEBRUARY 28, 1922.

155,934. POWER HAMMERS. C. C. BRADLEY & SON, Syracuse, N. Y.
Filed April 23, 1921. Serial No. 146,623. PUBLISHED NOVEMBER 15, 1921.

155,935. HOSIERY. THOS. H. BROWN, Philadelphia, Pa.
Filed June 30, 1921. Serial No. 149,846. PUBLISHED MARCH 7, 1922.

155,936. AUTOMOBILE AND ENGINE PARTS, AND ACCESSORIES—NAMELY, PISTON PINS, BALL BEARINGS, VALVE LIFTS, PUSH RODS, TAPPETS, AND WRENCHES. BURGESS-NORTON MFG. CO., Geneva, Ill.
Filed September 12, 1921. Serial No. 152,829. PUBLISHED FEBRUARY 28, 1922.

155,937. KNITTED UNDERWEAR FOR MEN, WOMEN, AND CHILDREN, AND HOSIERY. BURNSTINE AND NACHMAN, New York, N. Y.
Filed July 5, 1921. Serial No. 149,999. PUBLISHED MARCH 7, 1922.

155,938. PETTICOATS. BURTON BROS. & CO., New York, N. Y.
Filed August 10, 1921. Serial No. 151,608. PUBLISHED FEBRUARY 7, 1922.

155,939. COAL. T. O. BUSBEE, Chattanooga, Tenn.
Filed May 6, 1921. Serial No. 147,325. PUBLISHED SEPTEMBER 20, 1921.

155,940. PORK-SAUSAGE CASINGS. CALIFORNIA CASING CO., San Francisco, Calif.
Filed March 1, 1920. Serial No. 129,041. PUBLISHED MARCH 14, 1922.

155,941. CANNED FRUITS. CALIFORNIA CO-OPERATIVE CANNERIES, San Jose, Calif.
Filed January 12, 1921. Serial No. 142,128. PUBLISHED MARCH 14, 1922.

155,942. CANNED FRUITS. CALIFORNIA CO-OPERATIVE CANNERIES, San Jose, Calif.
Filed January 12, 1921. Serial No. 142,129. PUBLISHED MARCH 14, 1922.

155,943. DYESTUFFS AND BEESWAX. CARAVEL COMPANY, New York, N. Y.
Filed October 5, 1917. Serial No. 106,614. PUBLISHED JUNE 25, 1918.

155,944. BOOTS, SHOES, AND SLIPPERS MADE WHOLLY OR IN PART OF LEATHER AND CLOTH. J. W. CARTER CHICAGO CO., Chicago, Ill.
Filed September 17, 1921. Serial No. 153,033. PUBLISHED JANUARY 31, 1922.

155,945. THOROUGHBRED DOGS. REGINALD M. CLEVELAND, New York, N. Y.
Filed September 1, 1921. Serial No. 152,464. PUBLISHED DECEMBER 27, 1921.

155,946. COMPOSITION FLOORING AND MAGNESITE STUCCO. COMPOLOID PRODUCTS CORPORATION, Wilkes-Barre and Dorranceton, Pa.
Filed December 7, 1921. Serial No. 156,359. PUBLISHED FEBRUARY 7, 1922.

155,947. AMMONIA. THE CONDENSED BLUING CO., Chicago, Ill.
Filed September 26, 1921. Serial No. 153,335. PUBLISHED MARCH 14, 1922.

155,948. CHILDREN'S SHOES OF LEATHER OR OF LEATHER AND FABRIC. CRADDOCK-TERRY COMPANY, Lynchburg, Va.
Filed May 31, 1921. Serial No. 148,432. PUBLISHED MARCH 14, 1922.

155,949. TAR COMPOUNDS AND RUBBER COMPOSITIONS FOR COATING AND CEMENTING ROOFS, AND CONCRETE AND CEMENT HARDENERS. DETROIT WHITE LEAD WORKS, Detroit, Mich.
Filed May 25, 1921. Serial No. 148,217. PUBLISHED MARCH 14, 1922.

155,950. GEARS. WILLIS H. DIEFENDORF, Syracuse, N. Y.
Filed August 8, 1921. Serial No. 151,536. PUBLISHED FEBRUARY 28, 1922.

155,951. TOBACCO, MANUFACTURED OR UNMANUFACTURED; CIGARS, AND CIGARETTES. ALFRED DUNHILL, London, England, assignor to Alfred Dunhill of London, Inc., New York, N. Y., a Corporation of Delaware.
Filed September 19, 1921. Serial No. 153,079. PUBLISHED DECEMBER 6, 1921.

155,952. TOBACCO. MANUFACTURED OR UNMANUFACTURED; CIGARS, AND CIGARETTES. ALFRED DUNHILL, London, England, assignor to Alfred Dunhill of London, Inc., New York, N. Y., a Corporation of Delaware.
Filed September 19, 1921. Serial No. 153,080. PUBLISHED DECEMBER 27, 1921.

155,953. CHILDREN'S BIBS AND APRONS. ALICE M. DUNSWORTH, Oakland, Calif.
Filed February 28, 1921. Serial No. 144,132. PUBLISHED MARCH 7, 1922.

155,954. A TONIC FOR THE SYSTEM GENERALLY AND BLOOD PURIFIER. A. M. EDWARDS, Atlanta, Ga.
Filed October 12, 1921. Serial No. 154,017. PUBLISHED FEBRUARY 21, 1922.

155,955. BLANK BOOKS, LOOSE-LEAF LEDGER SHEETS, DRAFTS, INCLOSURES; T. W. LETTER, MEMO, AND BILL HEADS; STATEMENTS; DEPOSIT, CREDIT, AND DEBIT SLIPS; BLOTTERS, SCRATCH PADS, ORDER BOOKS, TAGS, POST CARDS, AND ENVELOPES. F. W. ERHARD, Galveston, Tex.
Filed September 16, 1921. Serial No. 152,991. PUBLISHED MARCH 14, 1922.

155,956. PERFUMED PAPER, WRITING PAPER, ENVELOPES, AND VISITING CARDS. ESSENCE DE L'AME PERFUME CO., INC., New York, N. Y.
Filed August 3, 1921. Serial No. 151,313. PUBLISHED MARCH 14, 1922.

155,957. CANDY. THE EUCLID CANDY COMPANY, Cleveland, Ohio.
Filed October 20, 1921. Serial No. 154,354. PUBLISHED FEBRUARY 28, 1922.

155,958. GARTERS. EVERYBODY'S GARTER CO., Floral Park, N. Y.
Filed August 2, 1921. Serial No. 151,263. PUBLISHED MARCH 14, 1922.

155,959. CIGARS, CIGARETTES, SMOKING AND CHEWING TOBACCO. FALK TOBACCO COMPANY, INCORPORATED, New York, N. Y.
Filed September 2, 1921. Serial No. 152,504. PUBLISHED MARCH 7, 1922.

155,960. MEDICINES FOR VENEREAL DISEASES. DOCTEUR H. FERRÉ & CIE., Paris, France.
Filed October 12, 1921. Serial No. 154,018. PUBLISHED FEBRUARY 21, 1922.

155,961. BOOTS AND SHOES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS. WM. FILENE'S SONS COMPANY, Boston, Mass.
Filed September 24, 1920. Serial No. 137,574. PUBLISHED MARCH 7, 1922.

155,962. WOMEN'S, MISSES', GIRLS', AND CHILDREN'S HATS. WM. FILENE'S SONS COMPANY, Boston, Mass.
Filed July 2, 1921. Serial No. 149,958. PUBLISHED MARCH 7, 1922.

155,963. PREPARED ROOFING—I. E., ROOFING COMPOSED OF ASPHALT AND FELT. FORD ROOFING PRODUCTS CO., Chicago, Ill.
Filed December 30, 1921. Serial No. 157,311. PUBLISHED MARCH 7, 1922.

155,964. PUMPING EQUIPMENT AND WATER SYSTEMS. FORT WAYNE ENGINEERING & MANUFACTURING CO., Fort Wayne, Ind.
Filed February 10, 1921. Serial No. 143,387. PUBLISHED FEBRUARY 28, 1922.

155,965. HATS FOR WOMEN. ALIDA G. FREEMAN, New York, N. Y.
Filed April 20, 1921. Serial No. 146,426. PUBLISHED MARCH 7, 1922.

155,966. FLAVORING EXTRACTS FOR FOOD. GARRETT & COMPANY, INC., Brooklyn, N. Y.
Filed September 6, 1921. Serial No. 152,621. PUBLISHED FEBRUARY 14, 1922.

155,967. WOMEN'S HOUSE DRESSES AND DRESS APRONS AND CHILDREN'S ROMPERS, CREEPERS, AND BLOOMER DRESSES. EUGENE GILLMAN, Seattle, Wash.
Filed August 3, 1921. Serial No. 151,314. PUBLISHED MARCH 14, 1922.

155,968. CUSTARD POWDER. A. L. GODWIN PRODUCTS COMPANY, Los Angeles, Calif.
Filed December 4, 1920. Serial No. 140,593. PUBLISHED FEBRUARY 8, 1921.

155,969. CERTAIN CUTLERY, MACHINERY, AND TOOLS. GOMEZ & SLOAN, INC., New York, N. Y.
Filed September 27, 1921. Serial No. 153,398. PUBLISHED FEBRUARY 28, 1922.

155,970. [WITHDRAWN.]

155,971. CERTAIN NAMED NURSERY PRODUCTS. THE GREENING NURSERY CO., Monroe, Mich.
Filed June 13, 1921. Serial No. 149,080. PUBLISHED FEBRUARY 21, 1922.

155,972. AIR AND GAS COMPRESSORS, VAPOR CONDENSERS, AND LIQUID EVAPORATORS. THE GRISCOM-RUSSELL COMPANY, New York, N. Y.
Filed September 22, 1921. Serial No. 153,208. PUBLISHED FEBRUARY 28, 1922.

155,973. HARNESS LEATHER AND SOLE LEATHER. THE HAFFNER BROTHERS COMPANY, Cincinnati, Ohio.
Filed September 22, 1921. Serial No. 153,214. PUBLISHED DECEMBER 27, 1921.

155,974. KEY-LOCKING RADIATOR CAPS FOR AUTOMOBILES. WALTER A. HANNA, Wilmette, Ill.
Filed May 9, 1921. Serial No. 147,423. PUBLISHED MARCH 7, 1922.

155,975. EYEGLASS BRIDGES, TEMPLE FRAMES, AND MOUNTINGS. F. A. HARDY & COMPANY, Chicago, Ill.
Filed November 3, 1921. Serial No. 154,977. PUBLISHED MARCH 7, 1922.

155,976. RUBBING LINIMENT FOR TREATMENT OF SPRAINS AND SORENESS OF MUSCLES. WILLIAM H. HARRISON, New York, N. Y.
Filed October 7, 1921. Serial No. 153,842. PUBLISHED MARCH 14, 1922.

155,977. CANNED SALMON AND CANNED TUNA. ERNEST L. HEEBNER, New York, N. Y., and Altoona, Wash.
Filed June 18, 1921. Serial No. 149,328. PUBLISHED MARCH 14, 1922.

155,978. AGRICULTURAL AND HORTICULTURAL SEEDS. PETER HENDERSON & CO., New York, N. Y.
Filed July 27, 1921. Serial No. 151,004. PUBLISHED DECEMBER 27, 1921.

155,979. CERTAIN NAMED CONSTRUCTION MATERIALS. THE HEPPES-NELSON ROOFING COMPANY, Chicago, Ill., assignor to The Richardson Company, Lockland, Ohio, a Corporation of Ohio.
Filed April 24, 1920. Serial No. 131,577. PUBLISHED FEBRUARY 7, 1922.

155,980. CERTAIN NAMED TEXTILE SHOE FABRICS. ALBERT HERZOG, New York, N. Y.
Filed October 28, 1919. Serial No. 124,269. PUBLISHED JANUARY 24, 1922.

155,981. WOODEN POSTS, TIES, POLES, PILING, BLOCKS. HIAWATHA LUMBER CO., Oklahoma, Okla.
Filed April 22, 1921. Serial No. 146,551. PUBLISHED JANUARY 31, 1922.

155,982. FACE AND HAND CREAMS AND LOTIONS. R. A. HUDSON COMPANY, INCORPORATED, Auburn, N. Y.
Filed October 4, 1921. Serial No. 153,725. PUBLISHED FEBRUARY 7, 1922.

155,983. STEEL IN BLOCKS AND IN BARS AND FORGINGS FOR ALL KINDS OF MACHINES, ARTISANS' TOOLS, CUTTING TOOLS, AND SPRINGS. POLDINA HUT, Prague and Kladno, Czecho-Slovakia, assignor to the Firm Poldi Steel Corporation of America, New York, N. Y.
Filed July 13, 1921. Serial No. 150,327. PUBLISHED MARCH 7, 1922.

155,984. STEEL IN BLOCKS AND IN BARS AND FORGINGS FOR ALL KINDS OF MACHINES, ARTISANS' TOOLS, CUTTING TOOLS, AND SPRINGS. POLDINA HUT, Prague and Kladno, Czecho-Slovakia, assignor to the Firm Poldi Steel Corporation of America, New York, N. Y.
Filed July 13, 1921. Serial No. 150,330. PUBLISHED MARCH 7, 1922.

155,985. COAL. THOMAS C. IRWIN, Chicago, Ill.
Filed June 13, 1921. Serial No. 149,082. PUBLISHED MARCH 14, 1922.

155,986. CERTAIN PHOTOGRAPHIC, OPTICAL, AND PROJECTION APPARATUS AND SUPPLIES AND MEASURING GRADUATES AND WEIGHING SCALES. C. A. P. IVENS, Nijmegen, Netherlands.
Filed June 17, 1921. Serial No. 149,285. PUBLISHED MARCH 7, 1922.

155,987. CERTAIN NAMED TOILET PREPARATIONS. DANIEL JAQUET, Paris, France.
Filed October 10, 1921. Serial No. 153,938. PUBLISHED JANUARY 24, 1922.

155,988. PLUSH COATS FOR LADIES AND MISSES. JOHN & JAMES DOBSON, INC., New York, N. Y.
Filed May 10, 1921. Serial No. 147,516. PUBLISHED MARCH 14, 1922.

155,989. PLUSH COATS FOR LADIES AND MISSES. JOHN & JAMES DOBSON, INC., New York, N. Y.
Filed May 10, 1921. Serial No. 147,517; PUBLISHED MARCH 14, 1922.

155,990. PLUSH COATS FOR LADIES AND MISSES. JOHN & JAMES DOBSON, INC., New York, N. Y.
Filed May 10, 1921. Serial No. 147,518. PUBLISHED MARCH 14, 1922.

155,991. CHOCOLATE CONFECTIONERY—NAMELY, CHOCOLATE-COVERED PLUM PUDDING. GEORGE J. JOHNSON, Cambridge, Mass.
Filed August 25, 1921. Serial No. 152,169. PUBLISHED FEBRUARY 14, 1922.

155,992. LAWN-GRASS SEED. JOHN OLIVER JOHNSON, Chicago, Ill.
Filed June 3, 1921. Serial No. 148,600. PUBLISHED JULY 26, 1921.

155,993. BIRD GRAVEL. JOHN OLIVER JOHNSON, Chicago, Ill.
Filed June 3, 1921. Serial No. 148,602. PUBLISHED DECEMBER 27, 1921.

155,994. CANNED FOODSTUFFS—NAMELY, CANNED FRUITS, CANNED VEGETABLES, CANNED SOUPS, CANNED OYSTERS, AND BEANS WITH PORK. THE W. H. KILLIAN CO., Baltimore, Md.
Filed April 20, 1921. Serial No. 146,441. PUBLISHED MARCH 7, 1922.

155,995. PAPERCLIPS. FRED J. KLINE, Long Island City, N. Y.
Filed August 19, 1921. Serial No. 151,950. PUBLISHED MARCH 14, 1922.

155,996. PAPER FASTENERS, COVERS AND FOLDERS FOR BINDING AND HOLDING PAPERS TOGETHER, DESK FILES, CLIP FILES, AND STENOGRAPHIC-BOOK HOLDERS. FRED J. KLINE, Long Island City, N. Y.
Filed August 19, 1921. Serial No. 151,951. PUBLISHED MARCH 14, 1922.

155,997. PAPER FASTENERS, PAPER CLIPS, FOLDERS FOR BINDING AND HOLDING PAPERS TOGETHER, DESK FILES, CLIP FILES, COVERS, AND STENOGRAPHIC-BOOK HOLDERS. FRED J. KLINE, Long Island City, N. Y.
Filed August 19, 1921. Serial No. 151,952. PUBLISHED MARCH 14, 1922.

155,998. YEAST PRODUCTS IN THE FORM OF POWDER OR TABLETS. CHARLES G. KUMMERLANDER, Chicago, Ill.
Filed November 1, 1921. Serial No. 154,878. PUBLISHED FEBRUARY 28, 1922.

155,999. DRESSES, MIDDY BLOUSES. LABINGER & GERSTEIN, Hartford, Conn.
Filed June 8, 1921. Serial No. 148,842. PUBLISHED MARCH 14, 1922.

156,000. CANDIES AND CHOCOLATES. EDGAR P. LEWIS, Boston, Mass.
Filed March 1, 1921. Serial No. 144,214. PUBLISHED MARCH 14, 1922.

156,001. FELT SHOES AND SLIPPERS. LITTLE FALLS FELT SHOE COMPANY, Little Falls, N. Y.
Filed July 30, 1921. Serial No. 151,182. PUBLISHED JANUARY 10, 1922.

156,002. CORSETS. LORD & TAYLOR, New York, N. Y.
Filed August 5, 1921. Serial No. 151,459. PUBLISHED MARCH 14, 1922.

156,003. LEATHER BOOTS AND SHOES. THE LOUNSBURY SOULE CO., New York, N. Y.
Filed April 28, 1921. Serial No. 146,917. PUBLISHED MARCH 7, 1922.

156,004. CANDY. THE ROBT F. MACKENZIE CO., Cleveland, Ohio.
Filed June 3, 1921. Serial No. 148,608. PUBLISHED MARCH 7, 1922.

156,005. PICKLES. MADOLENE PICKLE CORPORATION, Newport News, Va.
Filed September 7, 1921. Serial No. 152,684. PUBLISHED FEBRUARY 14, 1922.

156,006. CANDIES. MARI-BELL SWEETS, Minneapolis, Minn.
Filed September 9, 1921. Serial No. 152,765. PUBLISHED FEBRUARY 21, 1922.

156,007. SOLE LEATHER, UPPER LEATHER, HIDES, AND SKINS. MARCUS FORSCHER & CO., New York, N. Y.
Filed September 30, 1921. Serial No. 153,558. PUBLISHED DECEMBER 27, 1921.

156,008. CERTAIN NAMED MEDICINAL TABLETS. MASCO DRUG COMPANY, Boston, Mass.
Filed October 2, 1920. Serial No. 137,847. PUBLISHED FEBRUARY 21, 1922.

156,009. CANNED CHOWDER. MAURICE RIVER PACKING CO., Camden, N. J.
Filed February 7, 1921. Serial No. 143,287. PUBLISHED MARCH 14, 1922.

156,010. HACK-SAW BLADES. MAYHEW STEEL PRODUCTS INC., New York, N. Y.
Filed November 19, 1921. Serial No. 155,624. PUBLISHED FEBRUARY 28, 1922.

156,011. SALTED PEANUTS, ALMONDS, PECANS, AND FILBERTS. HAROLD J. MEYER, St. Joseph, Mo.
Filed May 31, 1921. Serial No. 148,450. PUBLISHED FEBRUARY 14, 1922.

156,012. METAL LATHS. MIDWEST STEEL & SUPPLY COMPANY, INC., New York, N. Y.
Filed November 19, 1921. Serial No. 155,626. PUBLISHED FEBRUARY 28, 1922.

156,013. LATHS. MIDWEST STEEL & SUPPLY COMPANY, INC., New York, N. Y.
Filed November 19, 1921. Serial No. 155,627. PUBLISHED FEBRUARY 7, 1922.

156,014. MACARONI. MINNESOTA MACARONI CO., St. Paul, Minn.
Filed October 21, 1921. Serial No. 154,412. PUBLISHED FEBRUARY 28, 1922.

156,015. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUP FOR MAKING THE SAME. JOHN MULHERN COMPANY, San Francisco, Calif.
Filed June 27, 1921. Serial No. 149,712. PUBLISHED MARCH 7, 1922.

156,016. CIGARETTES. B. MURATTI SONS AND COMPANY LIMITED, Manchester, England.
Filed December 22, 1920. Serial No. 141,427. PUBLISHED MARCH 14, 1922.

156,017. PASTILS OF CHOCOLATE. NAAMLOOZE VENNOOTSCHAP DROSTE'S CACAO- EN CHOCOLADEFABRIEKEN, Haarlem, Netherlands.
Filed August 29, 1921. Serial No. 152,342. PUBLISHED MARCH 14, 1922.

156,018. LICORICE TABLETS OR WAFERS FOR MEDICINAL AND SEMIMEDICINAL PURPOSES. NATIONAL LICORICE COMPANY, Brooklyn, N. Y.
Filed June 17, 1921. Serial No. 149,293. PUBLISHED MARCH 14, 1922.

156,019. RING TRAVELERS. NATIONAL RING TRAVELER CO., Providence, R. I.
Filed October 27, 1921. Serial No. 154,658. PUBLISHED FEBRUARY 28, 1922.

156,020. RING TRAVELERS. NATIONAL RING TRAVELER CO., Providence, R. I.
Filed September 6, 1921. Serial No. 152,629. PUBLISHED FEBRUARY 28, 1922.

156,021. CANDY. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass.
Filed October 31, 1921. Serial No. 154,823. PUBLISHED MARCH 7, 1922.

156,022. CANDY. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass.
Filed October 31, 1921. Serial No. 154,826. PUBLISHED MARCH 7, 1922.

156,023. CANDY. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass.
Filed October 31, 1921. Serial No. 154,827. PUBLISHED MARCH 14, 1922.

156,024. CANDY. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass.
Filed October 31, 1921. Serial No. 154,828. PUBLISHED FEBRUARY 28, 1922.

156,025. CANDY. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass.
Filed October 31, 1921. Serial No. 154,829. PUBLISHED FEBRUARY 28, 1922.

156,026. CANDY. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass.
Filed October 31, 1921. Serial No. 154,830. PUBLISHED MARCH 14, 1922.

156,027. CANDY. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass.
Filed October 31, 1921. Serial No. 154,831. PUBLISHED MARCH 14, 1922.

156,028. CANDY. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass.
Filed October 31, 1921. Serial No. 154,832. PUBLISHED MARCH 14, 1922.

156,029. CANDY. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass.
Filed October 31, 1921. Serial No. 154,834. PUBLISHED MARCH 14, 1922.

156,030. CANDY. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass.
Filed October 31, 1921. Serial No. 154,835. PUBLISHED MARCH 14, 1922.

156,031. STEAM-PIPE COVERINGS AND INSULATIONS, INCLUDING ASBESTOS, ROOFING CEMENTS, AND PREPARED ROOFINGS, INCLUDING ASBESTOS. NOTT-ATWATER COMPANY, Spokane, Wash.
Filed November 2, 1921. Serial No. 154,929. PUBLISHED MARCH 7, 1922.

156,032. PORTLAND CEMENT. OLD MISSION PORTLAND CEMENT COMPANY, San Francisco and San Juan Bautista, Calif.
Filed July 12, 1921. Serial No. 150,284. PUBLISHED FEBRUARY 7, 1922.

156,033. BATH ROBES, SACKS, BUNTINGS, AND FLANNELETTES. ONITA SPECIALTY CO., Brooklyn, N. Y.
Filed February 25, 1921. Serial No. 144,042. PUBLISHED MARCH 7, 1922.

156,034. JOURNAL BEARINGS. OREGON BRASS WORKS, Portland, Oreg.
Filed November 9, 1920. Serial No. 139,414. PUBLISHED FEBRUARY 21, 1922.

156,035. BATHING SUITS AND PLAYSUITS. O'SHEA KNITTING MILLS, Chicago, Ill.
Filed July 18, 1921. Serial No. 150,558. PUBLISHED MARCH 7, 1922.

156,036. CHILDREN'S GARMENTS — NAMELY, MIDDIES, BLOUSES, BLOOMERS, PANTS, OVERALLS, AND PLAYSUITS. SERENA BLAND PREUSSER, Belvedere, Calif.
Filed April 20, 1921. Serial No. 146,463. PUBLISHED MARCH 7, 1922.

156,037. ANIMAL TOY MADE OF WOOD. LE ROY RAYMOND, Ocean Park, Calif.
Filed October 20, 1921. Serial No. 154,382. PUBLISHED JANUARY 24, 1922.

156,038. LUMBER—NAMELY, PINE, FIR, AND CEDAR LUMBER. THE RED RIVER LUMBER COMPANY, Minneapolis, Minn.
Filed March 28, 1921. Serial No. 145,359. PUBLISHED JANUARY 31, 1922.

156,039. LUMBER—NAMELY, PINE, FIR, AND CEDAR LUMBER. THE RED RIVER LUMBER COMPANY, Minneapolis, Minn.
Filed March 28, 1921. Serial No. 145,361. PUBLISHED JANUARY 31, 1922.

156,040. LEATHER GLOVES. REYNIER & CIE, Grenoble, France, assignor to Etablissements Reynier, Grenoble, France, a Corporation of France.
Filed February 10, 1921. Serial No. 143,408. PUBLISHED MARCH 7, 1922.

156,041. LEATHER GLOVES. REYNIER & CIE, Grenoble, France, assignor to Etablissements Reynier, Grenoble, France, a Corporation of France.
Filed February 11, 1921. Serial No. 143,453. PUBLISHED MARCH 7, 1922.

156,042. LEATHER GLOVES. REYNIER & CIE, Grenoble, France, assignor to Etablissements Reynier, Grenoble, France, a Corporation of France.
Filed February 11, 1921. Serial No. 143,454. PUBLISHED MARCH 7, 1922.

156,043. TEA. RIDENOUR-BAKER GROCERY COMPANY, Kansas City, Mo.
Filed September 3, 1921. Serial No. 152,593. PUBLISHED FEBRUARY 14, 1922.

156,044. MEDICINAL PREPARATION FOR USE IN GONORRHEA AND ITS COMPLICATIONS AND GENITO-URINARY INFLAMMATIONS. RIEDEL & CO., INC., New York, N .Y.
Filed September 25, 1918. Serial No. 113,385. PUBLISHED JANUARY 4, 1921.

156,045. CERTAIN TOOLS AND CUTLERY. ROMER AXE AND TOOL COMPANY, Dunkirk, N. Y.
Filed September 29, 1921. Serial No. 153,520. PUBLISHED FEBRUARY 28, 1922

156,046. BRICK FOR THE WEARING SURFACE OF ROAD PAVING. JOHN R. ROOT, Terre Haute, Ind.
Filed November 9, 1921. Serial No. 155,236. PUBLISHED FEBRUARY 28, 1922.

156,047. CLOTHING CONSISTING OF COATS, VESTS, TROUSERS, OVERCOATS, MACKINAWS, AND RAINCOATS FOR MEN, YOUNG MEN, AND BOYS. H. B. ROSENTHAL-ETTLINGER CO., New York, N. Y.
Filed June 9, 1921. Serial No. 148,894. PUBLISHED MARCH 7, 1922.

156,048. DRESS, NEGLIGEE, AND WORK SHIRTS. ROYAL SHIRT CO., New York, N. Y.
Filed July 1, 1921. Serial No. 149,932. PUBLISHED MARCH 7, 1922.

156,049. BRICK AND CONCRETE CHIMNEYS AND BRICK SETTINGS FOR BOILERS—I. E., BRICK SUPPORTING WALLS FOR BOILERS. THE RUST ENGINEERING COMPANY, Baltimore, Md., and Washington, D. C.
Filed June 29, 1921. Serial No. 149,820. PUBLISHED MARCH 14, 1922.

156,050. EYELET PUNCHES. THE WM. SCHOLLHORN CO., New Haven, Conn.
Filed November 7, 1921. Serial No. 155,125. PUBLISHED FEBRUARY 28, 1922.

156,051. BRASSIÈRES, BANDEAUX, CORSETS, HIP GIRDLES, BUST RUFFLES, BUST FORMS, CORSET PADS, CORSET BELTS, AND BLOOMERS. THE CHARLES H. SCOTT COMPANY, Chicago, Ill.
Filed May 16, 1921. Serial No. 147,800. PUBLISHED MARCH 7, 1922.

156,052. SHELLED PECANS AND PECAN-NUT MEATS. SHEL-LESS NUT CO., Baltimore, Md.
Filed October 6, 1920. Serial No. 138,026. PUBLISHED FEBRUARY 21, 1922.

156,053. A CHILD'S WHEEL PUSH TOY. WILLIAM M. SHELTON, New York, N. Y.
Filed September 21, 1921. Serial No. 153,190. PUBLISHED MARCH 14, 1922.

156,054. TIME-RECORDING LOCKS. THE SILENT WATCHMAN CORPORATION, New York, N. Y.
Filed April 29, 1921. Serial No. 146,988. PUBLISHED MARCH 7, 1922.

156,055. GLASS CUTTERS. SMITH & HEMENWAY COMPANY, INC., New York, N. Y., and Irvington, N. J.
Filed August 13, 1921. Serial No. 151,773. PUBLISHED FEBRUARY 21, 1922.

156,056. CHOCOLATES, CANDIES, PEANUT BUTTER, AND BONBONS. THE SMITH-KIRK CANDY CO., Toledo, Ohio.
Filed September 7, 1920. Serial No. 136,919. PUBLISHED MARCH 14, 1922.

156,057. CHOCOLATES AND CANDY. THE SMITH-KIRK CANDY CO., Toledo, Ohio.
Filed August 16, 1921. Serial No. 151,851. PUBLISHED FEBRUARY 21, 1922.

156,058. A GENERAL ANALGESIC AND MEDICINE FOR NEURALGIA, HEADACHE, TOOTHACHE, RHEUMATISM, AND GRIPPE. SOCIETE CIVILE DES HERITIERS DE P. BASSET, Tassin la Demi-Lune, France.
Filed October 11, 1921. Serial No. 153,997. PUBLISHED FEBRUARY 21, 1922.

156,059. WOMEN'S, MISSES', AND CHILDREN'S OUTER GARMENTS—NAMELY, HOUSE DRESSES, PORCH, STREET, GARDEN, AND OTHER FROCKS, NEGLIGEES, AND BREAKFAST JACKETS. NELL SOUTER, Reedley, Calif.
Filed May 23, 1921. Serial No. 148,093. PUBLISHED MARCH 14, 1922.

156,060. CANDIES. STANDARD CANDY CO., Duluth, Minn.
Filed October 3, 1921. Serial No. 153,700. PUBLISHED MARCH 14, 1922.

156,061. FRUIT, VEGETABLE, AND GRAIN SEED. STARK BROS. NURSERIES & ORCHARDS CO., Louisiana, Mo.
Filed October 8, 1920. Serial No. 138,103. PUBLISHED FEBRUARY 7, 1922.

156,062. CANDY. STEWART-BARTLETT CANDY CO., Grinnell, Iowa.
Filed September 6, 1921. Serial No. 152,654. PUBLISHED MARCH 14, 1922.

156,063. CANDY. STEWART-BARTLETT CANDY CO., Grinnell, Iowa.
Filed September 6, 1921. Serial No. 152,655. PUBLISHED MARCH 14, 1922.

156,064. TIRE PUMPS. JOHN A. STRIMPLE, Janesville, Wis.
Filed September 23, 1921. Serial No. 153,262. PUBLISHED FEBRUARY 28, 1922.

156,065. FEZES. SUPREME ORIENT O. O. H. & P., Schenectady, N. Y.
Filed May 10, 1921. Serial No. 147,531. PUBLISHED MARCH 14, 1922.

156,066. BOTTLE-CAPPING MACHINES. SURE SEAL BOTTLE CAPPER CO., Chicago, Ill.
Filed September 10, 1921. Serial No. 152,809. PUBLISHED FEBRUARY 28, 1922.

156,067. A MEDICINE FOR ASTHMA. TEMPLETON'S LIMITED, Toronto, Ontario, Canada.
Filed April 16, 1921. Serial No. 146,278. PUBLISHED FEBRUARY 14, 1922.

156,068. CORN SIRUP WITH SORGHUM FOR FOOD PURPOSES. TEMTOR CORN & FRUIT PRODUCTS CO., St. Louis, Mo.
Filed March 24, 1921. Serial No. 145,182. PUBLISHED MARCH 14, 1922.

156,069. SALTED ALMONDS. MRS. E. L. THORNHILL, Lynchburg, Va.
Filed June 7, 1921. Serial No. 148,824. PUBLISHED MARCH 14, 1922.

156,070. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. WM. B. THREAPLETON'S SONS, Philadelphia, Pa.
Filed June 28, 1921. Serial No. 149,785. PUBLISHED MARCH 7, 1922.

156,071. PERFUMES. MAX EDWARD TILSON, New York, N. Y.
Filed August 25, 1921. Serial No. 152,191. PUBLISHED FEBRUARY 28, 1922.

156,072. CERTAIN WIRE AND STEEL BATHROOM FIXTURES. E. H. TITCHENER & Co., Binghamton, N. Y.
Filed August 3, 1921. Serial No. 151,340. PUBLISHED JANUARY 31, 1922.

156,073. CERTAIN NAMED CONSTRUCTION MATERIALS. TUCO PRODUCTS CORPORATION, New York, N. Y.
Filed July 21, 1921. Serial No. 150,785. PUBLISHED MARCH 14, 1922.

156,074. OVERALLS, WORK SHIRTS, MACKINAWS, DUCK COATS, COTTON HOSIERY, AND COTTON AND COTTON AND WOOL MIXTURE UNDERWEAR. WILLIAM HENRY VAN LEEUWEN, Jr., Grand Rapids, Mich.
Filed October 5, 1920. Serial No. 137,982. PUBLISHED MARCH 7, 1922.

156,075. MAYONNAISE DRESSING. VOGELER BROS., INC., Newark, N. J.
Filed September 14, 1921. Serial No. 152,939. PUBLISHED MARCH 14, 1922.

156,076. CANDY. FRED J. WAIGHT & CO., Washington, D. C.
Filed November 26, 1920. Serial No. 140,237. PUBLISHED FEBRUARY 22, 1921.

156,077. WOOD PULP, CHEMICAL PULP, SULPHATE AND SULPHITE PULP, SODA PULP, AND EASY-BLEACHING PULP. WAYAGAMACK PULP & PAPER CO., LIMITED, Three Rivers, Quebec, Canada.
Filed February 28, 1920. Serial No. 129,032. PUBLISHED FEBRUARY 28, 1922.

156,078. FRESH APPLES. WENATCHEE FRUIT & WAREHOUSE CO., INC., Peshastin, Wash.
Filed September 16, 1921. Serial No. 153,027. PUBLISHED MARCH 14, 1922.

156,079. CERTAIN NAMED CONSTRUCTION MATERIALS. GUSTAVE WENZELMANN, Galesburg, Ill.
Filed August 20, 1919. Serial No. 121,852. PUBLISHED FEBRUARY 7, 1922.

156,080. CANNED PINEAPPLES. WEST INDIES FRUIT IMPORTING CO., Chicago, Ill.
Filed December 21, 1920. Serial No. 141,403. PUBLISHED MARCH 7, 1922.

156,081. COLD CHISELS AND PUNCHES. WESTERN TOOL & FORGE COMPANY, Duluth, Minn.
Filed October 28, 1921. Serial No. 154,713. PUBLISHED FEBRUARY 21, 1922.

156,082. BONBON COATING. WHITE-STOKES COMPANY, INC., Chicago, Ill.
Filed October 26, 1921. Serial No. 154,628. PUBLISHED MARCH 7, 1922.

156,083. INTERNAL-COMBUSTION ENGINES. THE WILLYS-OVERLAND COMPANY, Toledo, Ohio.
Filed October 1, 1921. Serial No. 153,632. PUBLISHED FEBRUARY 14, 1922.

156,084. OVERALLS, COATS, JUMPERS, AND WORK SHIRTS. THE WINDER MANUFACTURING CO., Winder, Ga.
Filed July 21, 1921. Serial No. 150,788. PUBLISHED FEBRUARY 14, 1922.

156,085. LIQUID COSMETICS CONSISTING OF A SELF-DRYING LIQUID MIXTURE USED IN PLACE OF FACE POWDER. MAE EDNA WILDER, Rochester, N. Y.
Filed June 26, 1920. Serial No. 134,288. PUBLISHED JANUARY 11, 1921.

156,086. GRINDING SCREENS FOR FEED MILLS. WILLIAMS PATENT CRUSHER & PULVERIZER CO., St. Louis, Mo.
Filed September 15, 1921. Serial No. 152,970. PUBLISHED FEBRUARY 28, 1922.

156,087. CERTAIN ARTICLES OF CLOTHING. WINSHIP, BOIT & CO., Wakefield, Mass., and New York, N. Y.
Filed April 20, 1921. Serial No. 146,471. PUBLISHED MARCH 7, 1922.

156,088. CERTAIN NAMED HEAT-RETAINING MATERIAL. JOHN R. WOOD, Irvington, N. J., assignor to New Process Multi-Castings Company, Newark, N. J., a Corporation of New Jersey.
Filed November 17, 1920. Serial No. 139,762. PUBLISHED MARCH 14, 1922.

156,089. KNITTED COATS AND KNITTED JACKETS. YUND, KENNEDY & YUND, Amsterdam, N. Y.
Filed July 6, 1921. Serial No. 150,088. PUBLISHED MARCH 7, 1922.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

JUNE 13, 1922.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

156,090. (CLASS 39. CLOTHING.) AMERICAN APPAREL CORPORATION, New York, N. Y. Filed Nov. 22, 1921. Serial No. 155,731.

Mary Lynn

Particular description of goods.—Frocks.
Claims use since July 15, 1920.

156,091. (CLASS 39. CLOTHING.) AMERICAN LADY CORSET CO., Detroit, Mich. Filed June 4, 1921. Serial No. 148,641.

PLI-O-FRONT

Particular description of goods.—Brassières, Corsets, Corset Waists, Corset Covers, Belts for Personal Wear, Hose Supporters, Bandeaux, Women's and Misses' Dresses and Waists.
Claims use since Jan. 10, 1921.

156,092. (CLASS 39. CLOTHING.) AMERICAN LADY CORSET CO., Detroit, Mich. Filed June 4, 1921. Serial No. 148,642.

FLEX-O-FRONT

Particular description of goods.—Certain Articles of Clothing.
Claims use since Feb. 15, 1921.

156,093. (CLASS 39. CLOTHING.) AMERICAN LADY CORSET CO., Detroit, Mich. Filed Aug. 1, 1921. Serial No. 151,194.

GIRLISHFORM

Particular description of goods.—Corsets, Brassières, Corset Waists, Girdles, Hose Supporters, Ladies' and Misses' Dresses, Hosiery, and Underwear.
Claims use since Mar. 1, 1920.

156,094. (CLASS 39. CLOTHING.) AMERICAN LADY CORSET CO., Detroit, Mich. Filed Aug. 1, 1921. Serial No. 151,195.

YOUTHFUL STOUT

Particular description of goods.—Corsets, Brassières, Corset Waists, Girdles, Hose Supporters, Ladies' and Misses' Dresses, Hosiery, and Textile-Fabric Underwear.
Claims use since Mar. 1, 1919.

156,095. (CLASS 39. CLOTHING.) AMERICAN LADY CORSET COMPANY, Detroit, Mich. Filed Aug. 10, 1921. Serial No. 151,604.

YOUNG LADIES' MODEL

Particular description of goods.—Corsets, Brassières, Corset Waists, Girdles, Hose Supporters, Ladies' and Misses' Dresses, Hosiery, and Textile-Fabric Underwear.
Claims use since Jan. 2, 1915.

156,096. (CLASS 39. CLOTHING.) AMERICAN LADY CORSET CO., Detroit, Mich. Filed Nov. 7, 1921. Serial No. 155,078.

FRENCH SHAPE

Particular description of goods.—Corsets, Brassières, Corset Waists, Bandeaux, Girdles, and Diaphragm Confiners.
Claims use since Feb. 1, 1910.

156,097. (CLASS 39. CLOTHING.) AMERICAN LADY CORSET CO., Detroit, Mich. Filed Dec. 10, 1921. Serial No. 156,513.

FASHIONABLE STOUT

Particular description of goods.—Corsets, Brassières, Corset Waists, Bandeaux, Girdles, and Diaphragm Confiners.
Claims use since Feb. 1, 1920.

156,098. (CLASS 39. CLOTHING.) ARENJAY HAT CO., New York, N. Y. Filed July 22, 1921. Serial No. 150,798.

Particular description of goods.—Men's Straw Hats.
Claims use since June, 1920.

156,099. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ASHAWAY LINE & TWINE MANUFACTURING COMPANY, Ashaway, R. I. Filed Jan. 12, 1922. Serial No. 157,805.

SURFMAN'S

Particular description of goods.—Fishing Lines.
Claims use since 1904.

156,100. (CLASS 39. CLOTHING.) BECK NOVELTY CO., INC., New York, N. Y. Filed Nov. 22, 1921. Serial No. 155,734.

„Becksweaters"

Particular description of goods.—Sweaters and Scarfs.
Claims use since May, 1919.

156,101. (CLASS 39. CLOTHING.) BENJAMIN & JOHNES, Newark, N. J. Filed Nov. 17, 1921. Serial No. 155,473.

Très Jolie

Particular description of goods.—Corsets, Brassières, Under Bodices, Corset Covers, and Camisoles.
Claims use since December, 1914.

156,102. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) S. BIRKENSTEIN & SONS, INCORPORATED, Chicago, Ill. Filed Aug. 2, 1921. Serial No. 151,247.

The "HANDY"

Particular description of goods.—Dusting and Cleaning Cloths.
Claims use since Apr. 1, 1921.

156,103. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & CO. INC., New York, N. Y., assignor to Central Union Trust Company of New York, trustee, New York, N. Y., a Corporation of New York. Filed Jan. 24, 1922. Serial No. 158,355.

Fairfield

Particular description of goods.—Pile Fabrics in the Piece.
Claims use since Apr. 15, 1918.

156,104. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & CO. INC., New York, N. Y., assignor to Central Union Trust Company of New York, trustee, New York, N. Y., a Corporation of New York. Filed Jan. 24, 1922. Serial No. 158,361.

Chadwick

Particular description of goods.—Pile Fabrics in the Piece.
Claims use since Aug. 10, 1920.

156,105. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & CO. INC., New York, N. Y., assignor to Central Union Trust Company of New York, trustee, New York, N. Y., a Corporation of New York. Filed Jan. 24, 1922. Serial No. 158,366.

Shelbourne

Particular description of goods.—Pile Fabrics in the Piece.
Claims use since Oct. 5, 1920.

156,106. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & CO. INC., New York, N. Y., assignor to Central Union Trust Company of New York, trustee, New York, N. Y., a Corporation of New York. Filed Jan. 24, 1922. Serial No. 158,367.

Kingsbury

Particular description of goods.—Pile Fabrics in the Piece.
Claims use since Aug. 20, 1920.

156,107. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & CO. INC., New York, N. Y., assignor to Central Union Trust Company of New York, trustee, New York, N. Y., a Corporation of New York. Filed Jan. 24, 1922. Serial No. 158,370.

Nassau

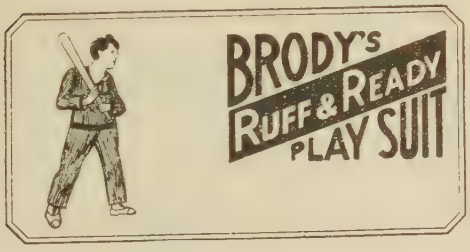
Particular description of goods.—Pile Fabrics in the Piece.
Claims use since Dec. 2, 1920.

156,108. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & CO. INC., New York, N. Y., assignor to Central Union Trust Company of New York, trustee, New York, N. Y., a Corporation of New York. Filed Jan. 24, 1922. Serial No. 158,373.

Taranto

Particular description of goods.—Pile Fabrics in the Piece.
Claims use since Nov. 23, 1920.

156,109. (CLASS 39. CLOTHING.) F. BRODY & SONS CO., Des Moines, Iowa. Filed July 30, 1921. Serial No. 151,139.



Particular description of goods.—Play Suits.
Claims use since Mar. 1, 1921.

156,110. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) BROOKLYN SHIELD & RUBBER CO., Brooklyn, N. Y. Filed Apr. 11, 1919. Serial No. 117,370.

Particular description of goods.—Dress Shields.
Claims use since 1900.

156,111. (CLASS 39. CLOTHING.) BROWN SHOE COMPANY, INC., St. Louis, Mo. Filed Nov. 18, 1921. Serial No. 155,545.

Brown's Arch Rest

Particular description of goods.—Leather and Leather and Fabric Shoes.
Claims use since Mar. 28, 1921.

156,112. (CLASS 39. CLOTHING.) BROWN SHOE COMPANY, INC., St. Louis, Mo. Filed Nov. 18, 1921. Serial No. 155,546.

Mound City Shoe

Particular description of goods.—Leather Shoes.
Claims use since February, 1905.

156,113. (CLASS 39. CLOTHING.) THE CHARLES ALSHULER MANUFACTURING COMPANY, Racine, Wis. Filed July 23, 1921. Serial No. 150,842.

THE Racine

Particular description of goods.—Work and Dress Shirts for Men, Made of Cotton, Woolen, Flannel, and Broadcloth Material.
Claims use since Aug. 15, 1906.

156,114. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) A. L. CLARK & CO., INC., New York, N. Y. Filed Jan. 5, 1922. Serial No. 157,513

LENOX

Particular description of goods.—Dressmakers' Pins and Bone Rings.
Claims use since January, 1919.

156,115. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COAST FISHING CO. INC., Wilmington, Calif. Filed Oct. 3, 1921. Serial No. 153,648.

Costa

Particular description of goods.—Canned Fish.
Claims use since 1918.

156,116. (CLASS 39. CLOTHING.) COHEN-SULKIS SHOE CO., INC., Boston, Mass. Filed Dec. 19, 1921. Serial No. 156,888.

SEA ISLAND SHOE CO.

Particular description of goods.—Shoes, Overshoes, Galoshes, Moccasins, Rubber Boots, Gymnasium Shoes, and Bedroom Slippers.
Claims use since Oct. 1, 1919.

156,117. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANGUS T. CURRY, Washington, D. C. Filed Feb. 2, 1922. Serial No. 158,758.

RAT-KILLER

Particular description of goods.—Rat Poison.
Claims use since Dec. 1, 1919.

156,118. (CLASS 39. CLOTHING.) DRYDEN RUBBER COMPANY, Chicago, Ill. Filed July 30, 1921. Serial No. 151,149.

DOUBLE WEAR

Particular description of goods.—Rubber Heels and Rubber Soles.
Claims use since July 30, 1919.

156,119. (CLASS 39. CLOTHING.) THE FAIR, Chicago, Ill. Filed Nov. 9, 1921. Serial No. 155,221.

Trustworthy

Particular description of goods.—Leather Shoes.
Claims use since on or about Aug. 1, 1920.

156,120. (CLASS 39. CLOTHING.) THE FAIR, Chicago, Ill. Filed Nov. 9, 1921. Serial No. 155,223.

Particular description of goods.—Men's Hats.
Claims use since March, 1909.

156,121. (CLASS 38. PRINTS AND PUBLICATIONS.) FUNK & WAGNALLS COMPANY, New York, N. Y. Filed June 10, 1920. Serial No. 133,532.

The International College of Languages

Particular description of goods.—Publications Relating to the Study of Languages.
Claims use since Apr. 22, 1907.

156,122. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. F. GLADDING & CO., INC., South Otselic, N. Y. Filed Oct. 22, 1921. Serial No. 154,441.

Particular description of goods.—Fishing Lines.
Claims use since Aug. 22, 1912.

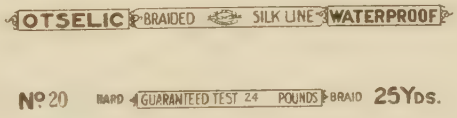
156,123. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. F. GLADDING & CO., INC., South Otselic, N. Y. Filed Oct. 27, 1921. Serial No. 154,647.

Particular description of goods.—Fishing Lines.
Claims use since Jan. 1, 1903.

156,124. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. F. GLADDING & CO., INC., South Otselic, N. Y. Filed Oct. 27, 1921. Serial No. 154,648.

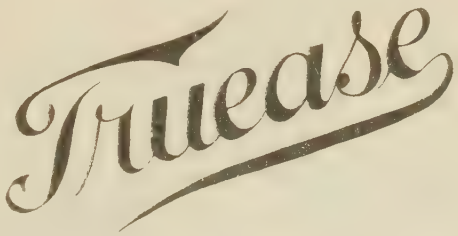
Particular description of goods.—Fishing Lines.
Claims use since July 1, 1915.

156,125. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. F. GLADDING & CO., INC., South Otselic, N. Y. Filed Oct. 29, 1921. Serial No. 154,738.



Particular description of goods.—Fishing Lines.
Claims use since July 31, 1912.

156,126. (CLASS 39. CLOTHING.) GUTHMANN, CARPENTER & TELLING, Chicago, Ill. Filed June 27, 1921. Serial No. 149,700



Particular description of goods.—Leather Shoes and Oxfords.
Claims use since Jan. 1, 1909

156,127. (CLASS 39. CLOTHING.) HAGERSTOWN SHOE & LEGGING CO. INC., Hagerstown, Md. Filed Jan. 3, 1922. Serial No. 157,425.

A BYRON PROCESS SOLE

Particular description of goods.—Leather Shoes.
Claims use since Jan. 1, 1920.

156,128. (CLASS 39. CLOTHING.) LEO HART, INC., New York, N. Y. Filed Nov. 19, 1921. Serial No. 155,616.

HART SENSIBLE SHOES

Particular description of goods.—Shoes Made Wholly or in Part of Leather.
Claims use since Dec. 15, 1919.

156,129. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE HESS AND HOPKINS LEATHER COMPANY, Rockford, Ill. Filed Mar. 28, 1922. Serial No. 161,359.

Honest Leather

Particular description of goods.—Leather.
Claims use since Aug. 20, 1912.

156,130. (CLASS 39. CLOTHING.) HOLLAND SHOE CO., Holland, Mich. Filed Oct. 22, 1921. Serial No. 154,451.

TUFTAN

Particular description of goods.—Leather Boots and Shoes and Boot and Shoe Soles.
Claims use since Mar. 1, 1919.

156,131. (CLASS 39. CLOTHING.) IRWIN CLOAK COMPANY, Cincinnati, Ohio. Filed Aug. 23, 1921. Serial No. 152,074.

Irwin's

Particular description of goods.—Certain Articles of Ladies' Wearing Apparel.
Claims use since about June, 1911.

156,132. (CLASS 39. CLOTHING.) F. JACOBSON & SONS, New York, N. Y. Filed July 29, 1921. Serial No. 151,088.

THE ARTISTIC

Particular description of goods.—Dress and Work Shirts, Pyjamas, and Nightgowns.
Claims use for about 25 years.

156,133. (CLASS 39. CLOTHING.) JOHN KELLY INC., Rochester, N. Y. Filed Oct. 1, 1921. Serial No. 153,605.

"Those Better Shoes"

Particular description of goods.—Women's Shoes Made of Leather and Fabric, Leather, Rubber and Leather; and Rubber and Fabric.
Claims use since January, 1918.

156,134. (CLASS 39. CLOTHING.) KLINE APPAREL COMPANY, St. Louis, Mo. Filed Aug. 15, 1921. Serial No. 151,801.

Kline's

Particular description of goods.—Certain Articles of Ladies' Wearing Apparel.
Claims use since Feb. 15, 1905.

156,135. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) LOUIS LEVUSSOVE. New York, N. Y. Filed Mar. 22, 1922. Serial No. 161,054.

SYRIAN

Particular description of goods.—Hair.
Claims use since May, 1900.

156,136. (CLASS 32. FURNITURE AND UPHOLSTERY.) JAMES MCCREERY & COMPANY, New York, N. Y. Filed Oct. 11, 1921. Serial No. 153,988.

Particular description of goods.—Certain Named Household Furniture.
Claims use since Mar. 22, 1915.

156,137. (CLASS 39. CLOTHING.) H. MALKIN'S SONS, New York, N. Y. Filed Nov. 8, 1921. Serial No. 155,182.

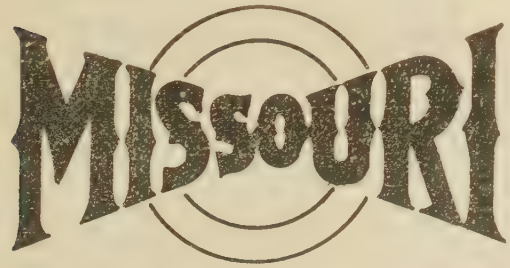
FOOT KARE

Particular description of goods.—Shoes, Boots, Slippers, and Sandals Made of Leather, Rubber, Fabric, or Combinations of Such Materials.
Claims use since October, 1917.

156,138. (CLASS 39. CLOTHING.) MEYER & STEIN, New York, N. Y. Filed Aug. 27, 1921. Serial No. 152,273.

Particular description of goods.—Men's Dress, Negligee, and Work Shirts.
Claims use since Jan. 1, 1921.

156,139. (CLASS 39. CLOTHING.) G. D. MILLIGAN GROCER CO., Springfield, Mo. Filed Aug. 26, 1921. Serial No. 152,210.



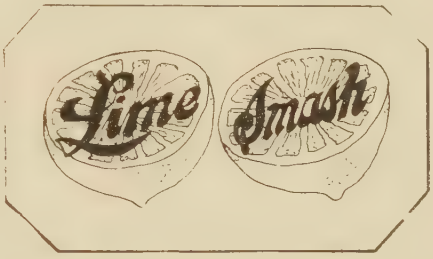
Particular description of goods.—Overalls, Work Shirts, Dress Shirts, Khaki Pants, Corduroy Pants, and Pants Made of Cotton Material.
Claims use since Feb. 1, 1920.

156,140. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MOTOR-KLEEN CORPORATION, Long Island City, N. Y. Filed Feb. 9, 1922. Serial No. 159,098.

MOTOR-KLEEN

Particular description of goods.—Carbon Remover.
Claims use since March, 1918.

156,141. (CLASS 45. BEVERAGES, NONALCOHOLIC.) ORANGE-SMASH CO., Birmingham, Ala. Filed Apr. 7, 1922. Serial No. 161,895.



Particular description of goods.—Nonalcoholic, Maltless, Carbonated Beverages Not of a Cereal Nature Sold as Soft Drinks and Sirups for Manufacture of Same.
Claims use since January, 1921.

156,142. (CLASS 39. CLOTHING.) THE RITE FORM CORSET CO., INC., New York, N. Y. Filed Oct. 25, 1921. Serial No. 154,568.

"Fashionable Stout"

Particular description of goods.—Corsets.
Claims use since July, 1916.

156,143. (CLASS 39. CLOTHING.) THE ROBERT WISE COMPANY, Cincinnati, Ohio. Filed Aug. 8, 1921. Serial No. 151,568.

Particular description of goods.—Shoes Made of Leather and Combinations of Leather and Fabric.
Claims use since Mar. 16, 1910.

156,144. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) J. ROBINSON COHEN & BRO., New York, N. Y. Filed Mar. 21, 1922. Serial No. 160,995.

BEST GLASSES

Particular description of goods.—Eyeglasses.
Claims use since Feb. 3, 1919.

156,145. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STANDARD OIL COMPANY (Incorporated in New Jersey), Bayonne, N. J., and New York, N. Y. Filed Dec. 5, 1921. Serial No 156,310.

STANDARD OIL CO. (NEW JERSEY)

Particular description of goods.—Certain Named Oils and Greases.
Claims use for more than one year prior to the filing of this application.

156,146. (CLASS 39. CLOTHING.) AMY ROZELLE STARKWEATHER, Amsterdam, N. Y. Filed Oct. 7, 1920. Serial No. 138,067.

Amy-Rozelle

Particular description of goods.—Underskirts.
Claims use since about Jan. 1, 1920.

156,147. (CLASS 32. FURNITURE AND UPHOLSTERY.) TUCKER DUCK & RUBBER CO., Fort Smith, Ark. Filed Sept. 6, 1921. Serial No. 152,659.

PEERLESS

Particular description of goods.—Folding Cots, Stools, and Chairs.
Claims use since Sept. 1, 1908.

156,148. (CLASS 39. CLOTHING.) VAN DEGRIFT'S, Los Angeles, Calif. Filed Jan. 3, 1922. Serial No. 157,458.

Nature Form

Particular description of goods.—Girls', Boys', and Babies' Shoes of Leather, Fabric, and Combinations of Leather and Rubber, and Fabric and Rubber.
Claims use since February, 1920.

156,149. (CLASS 39. CLOTHING.) WACHUSETT SHIRT CO., Town of Leominster, Mass. Filed Aug. 12, 1921 Serial No. 151,739.

"The Mark of Quality"

Particular description of goods.—Men's Stiff-Bosom, Negligee, Work, and Sport Shirts, Night Robes, and Pyjamas.
Claims use since May, 1912.

156,150. (CLASS 39. CLOTHING.) WEAR-WELL PANTS COMPANY, Baltimore, Md. Filed Nov. 29, 1921. Serial No. 156,062.

THE WEAR WELL PANTS
"NONE BETTER MADE"

Particular description of goods.—Men's and Boys' Trousers.
Claims use since the year 1897.

156,151. (CLASS 39. CLOTHING.) WEINGARTEN BROS., INC., New York, N. Y. Filed Nov. 16, 1921. Serial No. 155,465.

Stylish Slender

Particular description of goods.—Corsets.
Claims use since Nov. 1, 1920.

156,152. (CLASS 39. CLOTHING.) THE WOVENRIGHT KNITTING COMPANY, Cleveland, Ohio. Filed July 21, 1921. Serial No. 150,792.

WOVENRIGHT

Particular description of goods.—Men's, Women's, and Children's Hosiery.
Claims use since 1909.

TRADE-MARK REGISTRATIONS RENEWED.

21,099. CLOTHING FOR MEN, WOMEN, AND BOYS, AND HATS, CAPS, AND FLANNEL SHIRTS. Registered May 10, 1892. J. J. & W. WILSON, LIMITED, Kendal, England. Renewed May 10, 1922.

21,100. PIECE GOODS OF WOOLEN, SILK, LINEN, COTTON, JUTE, AND MIXED MATERIALS, RUGS, HORSE CLOTHING, WOOLS, WORSTEDS, YARNS, AND THREADS. Registered May 10, 1892. J. J. & W. WILSON, LIMITED, Kendal, England. Renewed May 10, 1922.

21,591. WRINGERS. Registered August 9, 1892. THE AMERICAN WRINGER COMPANY, Providence, R. I., and New York and Auburn, N. Y. Renewed August 9, 1922.

21,593. WRINGERS. Registered August 9, 1892. THE AMERICAN WRINGER COMPANY, Providence, R. I., and New York and Auburn, N. Y. Renewed August 9, 1922.

21,944. CIDER VINEGAR. Registered November 8, 1892, to DUFFY, MOUNTFORD & GREENE CIDER COMPANY, Newark, N. Y.; Duffy-Mott Company, Inc., a corporation of New York, assignee. Renewed November 8, 1922.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

U. S. Circuit Court of Appeals—First Circuit.

UNITED SHOE MACHINERY CO. *v.* L. Q. WHITE SHOE CO.

Decided March 2, 1922.

[279 Fed. Rep., 35.]

1. PATENTS—1,143,740, CLAIMS 11, 15, 19–23, FOR MACHINE FOR SETTING BLIND EYELETS IN SHOES, HELD VALID, BUT NOT INFRINGED.

The Wales patent, No. 1,143,740, for machine for setting blind eyelets in shoes, claims 11, 15, 19–23, *Held* valid as limited and not infringed.

2. SAME—1,143,741, CLAIMS 1–3, 5, 6, FOR METHOD OF SETTING BLIND EYELETS IN SHOE UPPERS, HELD VOID FOR LACK OF INVENTION.

The Wales patent, No. 1,143,741, for method of setting blind eyelets in shoe uppers, claims 1–3, 5 and 6. *Held* void for lack of invention, and also not infringed, if conceded validity.

APPEAL from the District Court of the United States for the District of Massachusetts; Charles F. Johnson, judge.

Suit in equity by the United Shoe Machinery Company against the L. Q. White Shoe Company. Decree for defendant, and complainant appeals. Affirmed.

For opinion below see 270 Fed., 650.

Messrs. Emery, Booth, Janney & Varney (*Mr. Frederick L. Emery* and *Mr. Preston Upham* of counsel) for the appellant.

Mr. Francis J. V. Dakin for the appellee.

Before BINGHAM and ANDERSON, Circuit Judges, and MORRIS, District Judge.

BINGHAM, *Cir. J.:*

This is an appeal from a decree of the District Court for Massachusetts in an equity suit charging infringement of two Letters Patent, Nos. 1,143,740 and 1,143,741, issued June 22, 1915, to the United Shoe Machinery Company, assignee through mesne assignments from Alfred B. Wales. The first is for a machine for setting blind eyelets in shoes, the application for which was filed May 4, 1912, and the second is for a method for setting blind eyelets in shoe uppers, applied for April 25, 1914. The defenses are invalidity and noninfringement.

[1] In the machine patent, the claims in issue are Nos. 11, 15, 19, 20, 21, 22, and 23. In the method patent, they are Nos. 1, 2, 3, 5, and 6.

Claim 15 reads as follows:

15. A machine for inserting blind eyelets in shoe uppers having, in combination, a tool with its end shaped for punching, said tool being movable in the machine to enter a shoe upper from one side thereof and to perforate both the lining portion and the outer portion, an eyelet carrying set movable toward the opposite side of the upper, while the tool remains in the upper for inserting an eyelet in one portion, and means for clinching the barrel of the eyelet on said portion and beneath the other portion of the upper while the tool remains in the upper.

In all the claims in issue no particular means for clinching the eyelet are stated, and the qualifying language in all the claims, except 21, is:

Before the tool is withdrawn from the upper (claim 11); while the tool remains in the upper (claim 15); while the tool remains in vertical line with the set and in its lowermost position (claim 19); while the punch remains in position at the end of its feeding movement (claim 20); before the feeding member is withdrawn from the hole in the upper (claim 22); while the feeding member still controls the position of the upper (claim 23).

In claim 21 the corresponding language as to the clinching means is as follows:

Upsetting means located in line with said punch and set and between the two parts of the upper when the upper has been fed over the set, and means for operating the set, with the parts of the upper in this position, to set a fastener in the under part while the punch remains in its lowermost position.

Claims 20, 21, 22, and 23 describe the punch as a "feeding member movable to feed the upper."

In the court below these claims of the machine patent were held valid, if their scope was limited to structures the character and operation of which were similar to the character and operation of the structure described, and, as thus limited, were not infringed. In its opinion, after reviewing the state of the art and pointing out the use to which the old Duplex machine could be put in setting invisible eyelets, which machine was commonly used in setting visible eyelets, the court said:

I do not think that Wales can be said to be a "pioneer" in that he produced a wholly novel device which would entitle him to a broad range of equivalents. When he had before him the Duplex machine with its thick anvil, the problem presented was how to make the anvil thinner, so that the relation of the leather of the upper to the lining might not be so disturbed that the hole in the leather would not register with the eyelet when set in the lining. While making the anvil thinner and inserting it between the leather and the lining more nearly accomplished the result which he desired, I do not think it can be said it was invention of a high order, which entitled him to a broad range of equivalents, to cut down the thickness of the intermediate anvil and to provide an attachment to an old machine.

Accordingly the court concluded that—

the broad and general language of the claims, "means for clinching the barrel of the eyelet upon the lining beneath the outer portion of the upper," should be restricted to the means described in the patent or substantial equivalents,

and it further pointed out that the range of equivalents should be limited—

to any anvil which may be interposed between the leather and the lining of a shoe upper when the edges are unstitched and not undertrimmed,

and that, thus limited, the defendant's alleged infringing device, a punch with a shoulder upon it (Fig. 7, Muther patent), did not fall within the range of equivalents as thus defined and did not infringe; that in the use of the defendant's punch the "edges of the upper are stitched and undertrimmed" before the work of setting and clinching the eyelets is undertaken and during which operation—

no part of the punch, which has penetrated both leather and lining, is withdrawn from either.

We think the court below was right in limiting the scope of the claims in this manner. The problem presented to the patentee of clinching an eyelet in an upper without stretching the leather, so as to disturb the alignment of the holes, where the edges of the leather and lining parts are open, was of a limited nature in view of the use to which the old Duplex machine could be put in setting invisible eyelets, of which fact the patentee was aware, it having been called to his attention by his father. He had also made use of the old Duplex machine with its thick anvil to set invisible eyelets, and ascertained that the difficulty encountered of stretching the leather and getting the holes out of alignment could be overcome by reducing the thickness of the anvil, which he subsequently, in the perfection of his device, did; and there is nothing in the specification showing that he had before him any other problem, or that he had thought of or undertaken to solve the clinching of eyelets between the outer and lining parts of an upper, the edges of which had been sewed together and undertrimmed. The broad claims in issue support rather than controvert this view, for they were not introduced into the specification until more than two years had elapsed after the application was filed, and after the device of the defendant was put upon the market, and the plaintiff, the assignee, had learned of later inventions similar in character to the defendant's.

The device which the patentee contrived, of a thin plate with an anvil or upsetting device upon it, contemplated that it should be put between the outer and lining parts of an upper, when the upper was placed by the operator upon the machine preparatory to punching the holes for setting blind eyelets, and of necessity required that the edges of the parts of the upper be left open. The device was designed for use in connection with the Glass-Peerless machine, and it no doubt involved a conception of a nature such as warrants its being regarded as an invention; but it clearly is not of a character that entitles it to broad claims necessitating for their validity a range of equivalents that will dominate the whole field of invisible eyeletting, whether the problem involved be the insertion of upsetting means between the outer and lining parts of an upper where the edges of the parts have been sewed and undertrimmed, as well as where the edges are left open.

The limit fixed by the ruling of the court in this case as to the range of equivalents was sufficiently broad, in view of the minor character of the problem which the patentee had presented to him, his knowledge of its solution gained from making blind eyelets in uppers with open edges on the old Duplex machine with its thick anvil, and the character of device he produced, which required that the edges of the outer and inner parts of the upper be left open to permit of its use.

We are also of the opinion that the device used by the defendant does not infringe. In the plaintiff's device the anvil 12, or upsetting means, on the plate 2, is placed between the open edges of the outer and lining portion of the upper when the upper is put upon the machine for blind eyeletting. The machine then punches a hole through both portions of the upper, the upper is thereupon fed along by the punch, and just before the punched hole reaches the anvil the lining portion is stripped from the punch and fed along, until the hole in the lining comes in position with the face of the anvil. At this point a tool comes up with an eyelet, forcing the barrel of the eyelet through the hole in the lining and against the anvil, riveting the eyelet upon the lining; the anvil being back-supported by the punch, the punch still remaining in the hole in the outer portion of the upper.

In blind eyeletting on the machine provided with the defendant's device (the punch with the shoulder), the lining and outer portions of the upper, when placed upon the machine, are not separated by an anvil, and could not be, as the edges of the lining and outer portion are sewed together and finished. With its parts sewed together the upper is placed upon the machine, which first punches a hole, and, remaining in the hole, feeds the upper along to a position in alignment with a tool which comes from below with an eyelet, crowding the barrel of the eyelet over the punch to a point between the lining and outer part of the upper. The barrel of the eyelet, being thrown out slightly while passing over the punch, engages the outer portion of the upper, and forces it up over the shoulder of the punch, thereby bringing the shoulder between the outer portion of the upper and the lining, which then clinches the barrel of the eyelet to the lining.

It is thus seen that in defendant's device the shoulder or anvil is brought between the lining and outer portion of the upper through the instrumentality of the eyelet, the punch remaining all the while through both portions of the upper, as would be the case if the machine was provided with the old punch for visible eyeletting; whereas, in the operation of the plaintiff's device the anvil is placed by hand between the lining and outer portion of the upper at the time the upper is placed upon the machine by the operative to do the work, and at the time of clinching the punch is removed from the lining, though remaining in the outer

portion. Consequently the respective tools by which the work of clinching the eyelet is performed differ, not only in character, but in their mode of operation.

[2] The claims in issue in the process patent were held invalid on the ground that they should be limited to the mode of operation of the Glass-Peerless machine when equipped with the anvil and separating device of the plaintiff's machine patent, and, thus limited, they were void, as representing only the functions of the machine.

It is contended on the part of the plaintiff that this ruling is wrong in that the process could be carried out by hand through the use of tools well known in the art, and also upon other machines to which the plaintiff's separating or interposed anvil device might be applied, as well as to the Glass-Peerless machine to which it was and is applied, and which is referred to in the specification of the process patent.

Whether the reason assigned for the conclusion reached is correct or not, we are nevertheless of the opinion that the claims are invalid. The plaintiff concedes that its process can be carried out by hand with the use of ordinary tools well known in the art. It is also apparent that a person skilled in the art of shoe-making, if called upon to punch holes and set blind eyelets by hand in an upper, the edges of the outer and inner layers of which are open, without disturbing the alignment of the holes—the problem said to have been solved by the patentee and disclosed by him in the specification of his method patent—could perform the work without the exercise of inventive thought. Such being the case, the claims, if given the breadth they plainly call for, are invalid.

But if it can be said that the claims could be sustained as for a method or process for setting blind eyelets in uppers, the edges of which are open, we do not think that the method employed by the defendant, in the operation of its device, infringes, as the method by which its device works is not the same as the plaintiff's.

The decree of the district court is affirmed, with costs to the appellee.

Court of Appeals of the District of Columbia.

E. MCILHENNY'S SON *v.* B. F. TRAPPEY & SONS.

Nos. 1468, 1469. Decided February 6, 1922.

1. TRADE-MARKS—TABASCO PEPPER SAUCE IS DESCRIPTIVE AND GEOGRAPHICAL.

The words "Tabasco" and "Tabasco Pepper Sauce," as applied to a sauce composed principally of tabasco pepper, are geographical and descriptive and are not registrable as a common-law trade-mark.

2. SAME—SUBSTANTIAL ADVERSE USE PREVENTS REGISTRATION UNDER TEN-YEAR CLAUSE.

A substantial adverse use by the opposer, even if an infringing use of mark, prevents the registration of a trade-mark under the ten-year clause of the Trade-Mark Act (Comp. St., 9400).

3. SAME—DISCLAIMER OF DESCRIPTIVE WORDS UNAVAILING IF THEY ARE DOMINATING FEATURE.

Where the descriptive words constitute the distinctive and dominating feature of a trade-mark, a disclaimer of such words is not availing to prevent cancellation of mark.

4. SAME—CANCELLATION—OPPOSING PARTY CAN HAVE MARK CANCELED AS DESCRIPTIVE.

A petitioner for the cancellation of a registered trade-mark, whose dominating feature is a descriptive word, is entitled to the relief asked where his label uses the descriptive word, but shows that it was not an attempt to simulate the label of the registrant.

Mr. F. M. Phelps and *Mr. E. S. Rogers* for McIlhenny's Son.

Mr. William L. Symons for Trappey & Sons.

ROBB, *J.*:

These are appeals from decisions of the Patent Office sustaining appellees' petition for the cancellation of two trade-marks registered by appellant under the so-called ten-year clause of the Trade-Mark Act. We here reproduce the mark involved in No. 1468, which differs from the mark in No. 1469 merely in the coloring employed:

In appellees' petition for cancellation it is averred that since 1896 it has continuously manufactured and sold in interstate commerce tabasco pepper sauce, and that since about 1898 it has used the following label on its goods:

In its answer appellant, while admitting that its registration was under the ten-year clause of the Trade-mark Act, denies—

that the words Tabasco Pepper Sauce are properly applicable to petitioners' said product, and denies that the same have ever been used by petitioners except in violation of McIlhenny Company's rights.

It further avers that—

independently of said registration it has and claims the exclusive right to the words Tabasco and Tabasco Sauce.

In *McIlhenny* v. *New Iberia E. of T. P. Co.* (34 App. D. C., 430; 153 O. G., 547), which involved an application for the cancellation of the word "Tabasco" registered by the appellant herein, we ruled that the word, being geographic and descriptive, could not be appropriated as a technical trademark. This view was adopted by the Supreme Court of Louisiana. (*New Iberia E. of T. P. Co.* v. *E. McIlhenny's Son*, —— La. ——, 61 S., 131.)

We directed attention in our former opinion to the significant fact that no application for registration of the word "Tabasco" was made by the McIlhenny Company until after the expiration of the term of its monopoly under the patent dated September 27, 1870, for improvement in pepper sauce. In the specification of that patent it is stated that the invention—

relates to a new process of preparing an aromatic and strong sauce from the pepper known in the market as tabasco pepper. This pepper is as strong as cayenne pepper, but of finer flavor. * * * One or two drops of it will be sufficient for any dish.

In *McIlhenny Co.* v. *B. F. Trappey*, present term, our attention was invited to an article entitled "Pepper" in the Western Horticultural Review of March 7, 1853 (in the Library of Congress), in which it is stated that a Colonel White of Louisiana had—

introduced the celebrated tabasco red pepper, the very strongest of all peppers of which he has cultivated a large quantity with a view of supplying his neighbors, and diffusing it through the State. * * * It is exceedingly hot, and but a small quantity of it is sufficient to pepper a large dish of food.

The article then states that Colonel White had—

made a sauce or pepper decoction of it, which possesses in a concentrated and intense form, all the qualities of the vegetable. *A single drop of this sauce will flavor a whole plate of soup or other food.*

It thus appears that, as applied to pepper sauce composed principally of tabasco peppers, the words "Tabasco Pepper Sauce" are aptly descriptive and hence not registrable as a common-law mark. In other words, we adhere to our earlier decision.

It is now contended that appellees' use of the word "Tabasco" during the ten-year period (1895–1905) was an infringing use and therefore not a bar to registration under the ten-year clause. This contention is without merit, since appellees' use was substantial, open and adverse. (*Davids Co.* v. *Davids*, 233 U. S., 461, 466; citing *in re Cahn, Belt & Co.*, 27 App. D. C., 173, 177; 122 O. G., 354; *Worcester Brewing Corp.* v. *Rueter*, 30 App. D. C., 428, 430, 431; 133 O. G., 1190; *in re Wright*, 33 App. D. C., 510; 148 O. G., 834.)

In *Beckwith* v. *Com. of Patents* (252 U. S., 538; 274 O. G., 613), cited by appellant, there was a disclaimer of the descriptive words of the trademark. Here the right to the exclusive use of the descriptive words is asserted. Moreover, in this case the descriptive words constitute the distinctive and dominating feature of the mark, so that a disclaimer would not help appellant. In the Beckwith case it was recognized that the design of the trade-mark may be—

so simple as to be a mere device or contrivance to evade the law and secure the registration of non-registrable words—

as in *Nairn Linoleum Co.* v. *Ringwalt Linoleum Works* (46 App. D. C., 64, 69; 237 O. G., 919), cited by the Supreme Court. In other words, if the descriptive words dominate the mark a mere disclaimer will avail nothing.

An examination of appellees' label shows that it is not attempting to simulate the label of appellant, that is to say, so far as this record discloses appellees are selling Trappey's tabasco sauce, as distinguished from McIlhenny's tabasco sauce. Appellees therefore have the right to seek the cancellation of appellant's mark. (*Levy & Co.* v. *Uri*, 31 App. D. C., 441; 135 O. G., 1363.) A refusal to cancel appellant's mark would amount to a ruling that no one other than appellant is entitled to sell, under its proper name, sauce made from tabasco peppers.

The decisions are affirmed.

Affirmed.

In this case Mr. Justice HOEHLING of the Supreme Court of the District of Columbia sat in the place of Mr. Chief Justice SMYTH.

ADJUDICATED PATENTS.

(U. S. C. C. A. Ga.) The Ashmore & Morgan patent, No. 1,273,022, for process and device for finishing concrete pavements, claims 5 and 6 *Held* valid and infringed. *Brooks-Callaway Co.* v. *Macon Concrete Roller Co.*, 279 Fed. Rep., 114.

(U. S. D. C. N. Y.) The Kinsley patent, No. 1,238,525, for trap spring, claim 2 *Held* valid and infringed. *Triumph Trap Co.* v. *Oneida Community Co.*, 279 Fed. Rep., 142.

(U. S. D. C. Md.) The Smith patent, No. 1,307,708, for check book, *Held* invalid. International *Flatstub Check Book Co.* v. *Young & Selden Co. of Baltimore City*, 278 Fed. Rep., 835.

(U. S. C. C. A. Mass.) The Wales patent, No. 1,143,740, claims 11, 15, 19–23, for machine for setting blind eyelets in shoes, *Held* valid, but not infringed. *United Shoe Machinery Co.* v. *L. Q. White Shoe Co.*, 279 Fed. Rep., 35.

(U. S. C. C. A. Mass.) The Wales patent, No. 1,143,741, claims 1–3, 5, 6, for method of setting blind eyelets in shoe uppers, *Held* void for lack of invention. *United Shoe Machinery Co.* v. *L. Q. White Shoe Co.*, 279 Fed. Rep., 35.

(U. S. C. C. A. Mass.) The Webster patent, No. 640,846, for pencil sharpener, *Held* not infringed. *Automatic Pencil Sharpener Co.* v. *Boston Pencil Pointer Co.*, 279 Fed. Rep., 40.

(U. S. C. C. A. N. Y.) Reissue patent, No. 14,143, claim 1, for trunk-locking device, *Held* valid and not anticipated. *Belber Trunk & Bag Co.* v. *Seward Trunk & Bag Co.*, 279 Fed. Rep., 82.

(U. S. D. C. Pa.) The Akimoff patent, No. 1,296,606, claims 21–23, 26, and 29 *Held* void, as not within the scope of application. *Dynamic Balancing Mach. Co.* v. *Akimoff*, 279 Fed. Rep., 285.

(U. S. D. C. Pa.) The Akimoff patent, No. 1,296,610, for balancing machine, claims 15 and 16 *Held* void and claims 12 and 13 valid as against assignor of application. *Dynamic Balancing Mach. Co.* v. *Akimoff*, 279 Fed. Rep., 285.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

837,017, C. A. von Welsbach, Pyrophoric alloy; suit filed May 2, 1922, U. S. D. C., E. Pa., Doc. 2521, *A. Harris and New Process Metals Co., Inc.*, v. *Central Dental Supply Co.*

958,478, W. E. Davey, Process of reinforcing trees, suit filed January 30, 1922, U. S. D. C., N. D. Ohio (E. Div.), Doc. 692, *The Davey Tree Expert Co.* v. *M. H. Aikins;* same, Doc. 693; *Same* v. *A. F. Johnson et al.* Final decree, injunction against defendants issued March 11, 1922.

978,030, 1,152,642, 1,192,786, 1,192,788, 1,246,818, 1,289,036, A. A. Kent, Electric contact device; Des. 42,666, same, Cap for contact makers; Des. 53,852, same, Spring contact arms; suit filed May 9, 1922; U. S. D. C., Mass., Doc. 1720 Eq., *Atwater Kent Mfg. Co.* v. *Bay State Research & Mfg. Co., Inc.*

1,041,623, C. B. Guthrie, Consolidated tariff indices, suit filed May 15, 1922, U. S. D. C., S. D. N. Y., Doc. Eq. 23/384, *C. B. Guthrie* v. *W. S. Curlett, agent*, and fifty-seven railroads.

1,066,623, R. Kahn, Gas igniters; 1,101,146, A. O. Rutz, Flash igniters; 1,227,078, A. O. Rutz, Valves; suit filed May 24, 1922, U. S. D. C., Wis., Doc. 1237 C. D., *Milwaukee Gas Specialty Co.* v. *Gauger & Johnson Mfg. Co. et al.*

1,075,346, G. T. Flick, Hosiery-finishing board; 1,218,520, J. H. Brine, Hosiery-finishing apparatus; 1,268,066, J. G. Prosser, same, suit filed May 3, 1922, U. S. D. C., E. Pa., Doc. 2523, *Paramount Hosiery Form Drying Co.* v. *Walter Snyder Co.*

1,082,682, R. Douglas, Food products; 1,235,666, same, Jelly making products; 1,304,166, same, Food products and their method of manufacture, suit filed June 2, 1922, U. S. D. C., N. Y., Doc. 386 C, *Douglas Packing Co., Inc.*, v. *Armour & Co.*

1,084,080, G. H. Gillons, Oil-refining mechanism, suit filed May 25, 1922, U. S. D. C., Ill. (S. Div.), Doc. 221, *Richfield Oil Co., G. H. Gillons, J. B. Shannon, and E. C. Crow* v. *Roxana Petroleum Corporation.*

1,101,146. (See 1,066,623.)

1,131,255, L. W. Luellen, Dispensing apparatus; 1,273,891, same, Receptacles; suit filed May 26, 1922, U. S. D. C., Mass., Doc. 1729, *Individual Drinking Cup Co., Inc.*, v. *American Water Supply Co. of N. E.*

1,150,426, W. S. Hadaway, Jr., Electric heaters; 1,174,030, same, Electric stove, suit filed April 29, 1922, U. S. D. C., E. D. Wis., Doc. 1223 C. D., *The Cutler-Hammer Mfg. Co.* v. *General Electric Co.*

1,152,642. (See 978,030.)

1,174,030. (See 1,150,426.)

1,181,395, G. Lane, Lifting jacks, suit filed May 19, 1922, U. S. D. C., E. D. Mich. (S. Div.), Doc. 469, *Lane Brothers Co.* v. *Dextra Mfg. Co.*

1,192,786. (See 978,030.)

1,192,788. (See 978,030.)

1,218,520. (See 1,075,348.)

1,220,444, S. Naismith, Basic open-hearth furnaces, suit filed February 28, 1922, U. S. D. C., N. D. Ohio (E. Div.), Doc. 530, *The Open Hearth Steel Furnace Co.* v. *The Youngstown Sheet & Tube Co.* Bill dismissed March 24, 1922. Exceptions noted.

1,227,078. (See 1,066,623.)

1,235,666. (See 1,082,682.)

1,246,818. (See 978,030.)

1,268,066. (See 1,075,346.)

1,273,891. (See 1,131,255.)

1,289,036. (See 978,030.)

1,304,166. (See 1,082,682.)

1,332,711, D. M. Cooper, Garment-pressing machine, suit filed November 29, 1921, U. S. D. C., N. D. Ohio (E. Div.), Doc. 677, *The American Laundry Machine Co.* v. *U. S. Hoff-Man Machinery Co.* Final decree April 14, 1922. Bill dismissed.

1,333,708, P. A. Fischer, Adjustable caps, suit filed May 8, 1922, U. S. D. C., Md., Doc. 292 Eq., *Fine & Levy* v. *Dorf & Company.*

1,344,570, J. J. Warren, Wall paper and methods of making it; Des. 54,152, same, Design for wall paper, suit filed June 27, 1921, U. S. D. C., E. D. Wis., Doc. 1124 C. D., *Harmon Paper Co.* v. *Kimberly-Clark Co.* Decree dismissing bill for want of equity May 16, 1922.

1,344,603, J. J. Warren, Paper-making apparatus, suit filed June 27, 1921, U. S. D. C., E. D. Wis., Doc. 1123, C. D., *Harmon Paper Co.* v. *Kimberly-Clark Co.* Decree dismissing bill for want of equity May 16, 1922.

1,360,403, E. F. Hollarn, L. Hubble, E. G. Everton, and F. Wilcox, Sheet-metal-forming machines, suit filed May 31, 1922, U. S. D. C., N. D. Ohio (E. Div.), Doc. 734, *Johnson Automobile Sheet Metal Works* v. *The Yoder Company.*

1,370,667, A. Petrie, Improvements in extensible slide supports for wardrobe trunks, suit filed May 8, 1922, U. S. D. C., E. D. Wis., Doc. 1232 C. D., *Milwaukee Stamping Co.* v. *Greene Mfg. Co.*

1,386,513, H. M. Lambert, Tire molds; Des. 57,363, same, Design for cushion tires; 1,414,252, same, Cushion tires, suit filed May 23, 1922, U. S. D. C., N. D. Ohio (E. Div.), Doc. 733, *Lambert Tire & Rubber Co.* v. *Brubaker Tire Co. and William A. Brubaker.*

1,405,674, C. F. Eckhart, Lighting fixtures, suit filed April 17, 1922, U. S. D. C., Wis., Doc. 1215 C. D., *C. F. Eckhart* v. *Florentine Statuary Company.*

1,414,252. (See 1,386,513.)

Des. 42,666. (See 978,030.)

Des. 53,852. (See 978,030.)

Des. 54,152. (See 1,344,570.)

Des. 57,363. (See 1,386,513.)

Des. 60,084, T. Cahn, Design for garter, suit filed May 1, 1922, U. S. D. C., E. Pa., Doc. 2519, *Pioneer Suspender Co.* v. *Eagle Suspender and Belt Co.*

Re. 13436, F. G. Perkins, Glue and method of making the same, suit filed June 14, 1921, U. S. D. C., E. D. Wis., Doc. 1117, C. D., *Perkins Glue Co.* v. *Wisconsin Chair Co. et al.;* same, Doc. 1117 C. D., *Perkins Glue Co.* v. *Gould Mfg. Co.* Decree dismissing bill for want of equity May 16, 1922.

Re. 13,813, H. Ariens, Portable container, suit filed April 28, 1920, U. S. D. C., E. D. Wis., Doc. 995 C. D., *Brillion Iron Works* v. *Max W. Goldberg et al.* Decree dismissing bill for want of equity May 4, 1922.

Changes in Classification.

(ORDER No. 2,752.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 3, 1922.

The following change in the classification of inventions is hereby directed, to take effect immediately:

In class 296, Land Vehicles, Bodies and Tops (Division X), establish the following subclass and definition:

Bodies—
Doors and windows—
44.5. Window guides.

44.5. BODIES, DOORS AND WINDOWS, WINDOW GUIDES. Guides for the windows of land vehicles.

Search Class—
20—WOODEN BUILDINGS, subclasses indented under "Windows," for window structure of general application.

The patents contained in this subclass have been taken from class 20, Wooden Buildings, subclass 52.1, Windows, Sliding sash, Pocketed.

THOMAS E. ROBERTSON,
Commissioner.

Changes in Classification.

(ORDER No. 2,753.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 7, 1922.

The following change in the classification of inventions is hereby directed, to take effect immediately:

In class 280, Land Vehicles (Division X), establish the following subclass and definition:

Wheeled—
61.5. Repairman's creepers.

61.5. WHEELED, REPAIRMAN'S CREEPERS. Low bed-like trucks adapted to be propelled under a vehicle and support a repairman thereunder.

Search this class, subclasses 31, 32, and 61.

Search Class—
254—PUSHING AND PULLING IMPLEMENTS, subclass 2, Hoisting trucks, and subclasses indented thereunder.

The patents contained in this subclass have been taken from various subclasses in class 5, Beds.

THOMAS E. ROBERTSON,
Commissioner.

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office.

Vol. 299—No. 3. TUESDAY, JUNE 20, 1922. Price—$5 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $5.00 per annum; single numbers, 10 cents each.

Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CONTENTS.

	Page.
ISSUE OF JUNE 20, 1922	465
INTERFERENCE NOTICES	465
ADVERSE DECISIONS IN INTERFERENCE	465
CERTIFICATION BY THE SECRETARY OF THE INTERIOR	465
COMMUNICATIONS TO THE PATENT OFFICE	465
APPLICATIONS UNDER EXAMINATION	466
PATENTS GRANTED	467
REISSUES	609
DESIGNS	610
TRADE-MARKS PUBLISHED (137 APPLICATIONS)	623
TRADE-MARK REGISTRATIONS GRANTED	641
TRADE-MARK REGISTRATIONS RENEWED	654
TRADE-MARK REGISTRATIONS CANCELED	654
LABELS	655
PRINTS	657
DECISIONS OF THE U. S. COURTS—	
Automatic Pencil Sharpener Co. *v.* Boston Pencil Pointer Co.	659

Issue of June 20, 1922.

Patents	710—No. 1,419,909 to No.	1,420,618, inclusive.
Designs	54—No. 61,076 to No.	61,129, inclusive.
Trade-Marks	345—No. 156,153 to No.	156,497, inclusive.
Labels	89—No. 24,481 to No.	24,569, inclusive.
Prints	25—No. 6,154 to No.	6,178, inclusive.
Reissues	5—No. 15,388 to No.	15,392, inclusive.
T. M. Renewals	22	
Total	1250	

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 27, 1922.

J. W. Wilk & Company, their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Seaboard Commercial Company, of Second Avenue and Yealer Way, Seattle, Wash., for registration of a trade-mark and trade-mark registered January 5, 1915, No. 101,660, to J. W. Wilk & Company, of 1720–22–24 West Polk Street, Chicago, Ill., and a notice of such interference sent by registered mail to said J. W. Wilk & Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said J. W. Wilk & Company, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 13, 1922.

Conn and Moran, their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Conn and Moran, of 324½ South Hill Street, Los Angeles, Calif., and an application of Pasquale Beneduce, of 326 Monroe Street, Hoboken, N. J., for patent, and the Office having failed to secure proof of service upon Conn and Moran at their address of record, or upon Pottenger and Pottenger, of 427 Western Mutual Life Building, Los Angeles, Calif., the parties who filed said Conn and Moran's application, notice is hereby given that unless Conn and Moran, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 13, 1922.

William H. Starbuck, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The Hirshberg Paint Co., 106 to 110 West Pratt Street, Baltimore, Md., for registration of a trade-mark and trade mark registered April 7, 1903, No. 40,058, to William H. Starbuck, 404 Broome Street, New York, N. Y., and a notice of such declaration sent by registered mail to said William H. Starbuck at the said address having been returned by the post office undeliverable, notice is hereby given that unless said William H. Starbuck, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Assistant Commissioner.

Adverse Decisions in Interference.

PATENT NO. 1,364,537.

On May 9, 1922, a decision was rendered that Solomon A. Winklepleck was not the first inventor of the subject matter covered by claims 1 and 2 of his Patent No. 1,364,537, subject, "Razor-strop protector," and no appeal having been taken within the time allowed such decision has become final.

Certification by the Secretary of the Interior.

By authority of an act of Congress approved August 24, 1912, (183 O. G., 507,) providing uniform charges for furnishing copies of records of the Department of the Interior and its several Bureaus, a fee of twenty-five cents will be charged by the Secretary of the Interior for every certificate of authentication of official character of the officials of the Patent Office. The fee thus provided should be paid to the Secretary of the Interior, and not to the Patent Office. Attorneys and inventors desiring such certificates are requested to remit the necessary fee to the Secretary of the Interior at the time of filing in the Patent Office an order for the copies desired.

Communications to the Patent Office.

RULE 8. A separate letter should in every case be written in relation to each distinct subject of inquiry or application. Assignments for record, final fees, and orders for copies of abstracts must be sent to the Office in separate letters.

Condition of Applications Under Examination at Close of Business June 10, 1922.

(Total number of applications waiting action, excluding Trade-Mark division, 67,738; Trade-Mark division, 8,835. Oldest new case, Jan. 28; oldest amended, Mar. 26, 1921. The dates given are 1921 except where * indicates 1922.)

Room No.	Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	Nov. 14	Dec. 3	922
128	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants, and Flowers.	June 14	July 5	1,934
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Sept. 16	Aug. 15	953
234	4. MERRITT, A. D., Conveyers; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Aug. 6	Apr. 3	1,532
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Sept. 25	Aug. 27	1,097
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Sept. 1	*Feb. 1	1,287
312	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes	Sept. 6	Nov. 7	2,395
133	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet-Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	*Mar. 11	*Apr. 10	869
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	May 27	*Apr. 8	1,146
235	10. MITCHELL, T. H., Land Vehicles; Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	Nov. 18	*Mar. 18	1,102
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	*Jan. 16	Feb. 16	626
322	12. PIERCE, P. P., Machine Elements	Nov. 5	*Jan. 25	1,281
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Jan. 28	*Mar. 23	1,802
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	Aug. 9	*Mar. 16	454
308	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	June 20	Aug. 8	2,021
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	June 11	July 5	2,271
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks, Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Aug. 17	Dec. 31	1,359
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices; Steam and Vacuum Pumps.	Apr. 12	May 5	2,390
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Rheostats and Humidostats.	June 2	Sept. 3	1,244
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Dec. 14	Dec. 17	1,573
212	21. THURBER, W. L., Continuous-Strip Feeding; Textiles; Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	July 18	Dec. 28	941
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making.	Oct. 14	*Feb. 2	404
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Apr. 21	Oct. 15	804
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Aug. 4	*Jan. 11	1,181
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*Apr. 1	*Apr. 4	438
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Sept. 9	Dec. 2	1,028
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Aug. 13	Sept. 12	1,960
225	28. BENSON, A. R., Internal-Combustion Engines	Oct. 7	Aug. 23	1,760
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Sept. 6	*Mar. 24	650
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	Dec. 5	*Apr. 1	1,431
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	June 16	Aug. 11	2,153
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Aug. 2	Feb. 13	1,047
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Nov. 2	Dec. 29	952
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	*Mar. 9	*Mar. 9	529
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	*Feb. 8	*Mar. 3	877
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	Dec. 30	Dec. 15	1,807
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	July 8	July 20	1,941
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Oct. 19	Oct. 17	1,718
220	39. COWLES, A. W., Fluid-Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Apr. 30	May 16	2,280
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	June 11	Sept. 8	2,999
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	*Jan. 20	Dec. 22	746
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	June 29	June 13	1,946
382	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	July 9	Aug. 20	1,909
253	44. SHAFFER, C. H., Air Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration; Ships.	Sept. 26	*Mar. 24	555
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Nov. 9	*Feb. 3	1,240
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders, Wooden Buildings; Scaffolds.	Oct. 4	Nov. 3	1,346
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems.	Aug. 4	Dec. 19	1,307
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	Mar. 22	Mar. 26	2,743
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, JR.			
	Trade-Marks	Sept. 12	Jan. 30	5,942
	Designs	Sept. 16	Jan. 25	2,749
	Labels and Prints	May 17	May 31	144

PATENTS

GRANTED JUNE 20, 1922

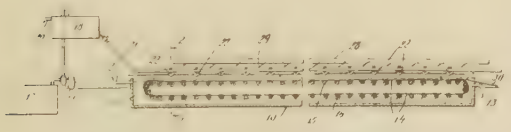
1,419,909. TRACTOR GUIDE. FRED J. ANDERSON, Triumph, Minn. Filed June 2, 1921. Serial No. 474,394. 2 Claims. (Cl. 97—81.)

1. In a tractor having a frame and bearings secured to the front thereof, a guiding device comprising a rod journaled in said bearings and extending downwardly and forwardly therefrom and formed into an open sided figure constituting a shoe adapted to engage with the side of a furrow and a rotatable disk member supported on a shaft extending downwardly and laterally from the top of said shoe and adapted to travel along the bottom of said furrow adjacent said shoe.

1,419,910. LIQUID FUEL. ARTHUR A. BACKHAUS, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Oct. 12, 1917. Serial No. 196,178. 16 Claims. (Cl. 44—9.)

1. A fuel comprising a petroleum distillate, an alcohol, an aromatic hydrocarbon, and a phenol adapted to blend the other constituents.

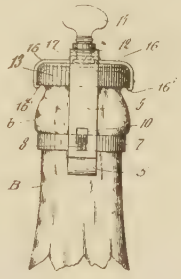
1,419,911. SOLIDIFYING SULPHUR. RAYMOND F. BACON and HAROLD SIMMONDS DAVIS, Pittsburgh, Pa., assignors to Texas Gulf Sulphur Company, Bay City, Tex., a Corporation of Texas. Filed May 31, 1921. Serial No. 473,870. 13 Claims. (Cl. 18—57.)



1. The method of solidifying molten sulphur which comprises building up a mass of solid sulphur by successively cooling and solidifying a plurality of overlying films of molten sulphur.

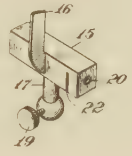
1,419,912. CONTAINER SEAL. RICHARD BAER, New York, N. Y. Filed Jan. 10, 1921. Serial No. 436,056. 4 Claims. (Cl. 215—86.)

4. A container seal comprising a band passing about the container near the mouth, a yoke connected to the band and extending across the mouth of the container, a cap on the container, a screw held by the yoke and having a head band against the cap, and angle strips



welded to the cap and having overturned ends engaged beneath the edges of the cap, said strips further having offset inner ends engaging freely upon the screw head.

1,419,913. PHONOGRAPH REPRODUCER. BURR B. BLOOD, Chicago, Ill., assignor, by mesne assignments, to Jewel Phonoparts Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 16, 1919. Serial No. 271,377. 1 Claim. (Cl. 274—35.)

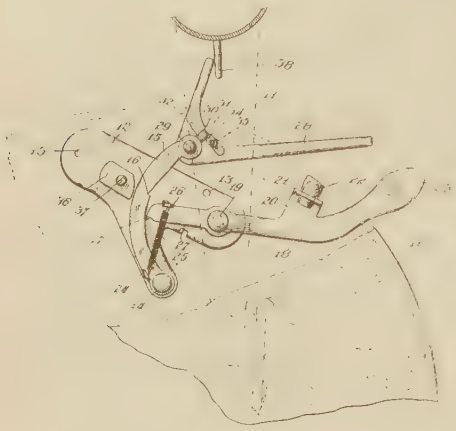


In a phonograph reproducer, a stylus-bar provided with a cross-head and stylus-holding portion at one end, the cross-head adjacent one of its ends being provided with a slot extending transversely therethrough from one longitudinal side to a point beyond the longitudinal axis of the cross-head so as to provide a partially severed end portion adapted to yield in a direction lengthwise of the cross-head.

1,419,914. STOP DEVICE FOR PHONOGRAPHS. BURR B. BLOOD, Chicago, Ill., assignor, by mesne assignments, to Jewel Phonoparts Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 4, 1920 Serial No. 363,257. 9 Claims. (Cl. 192—116.)

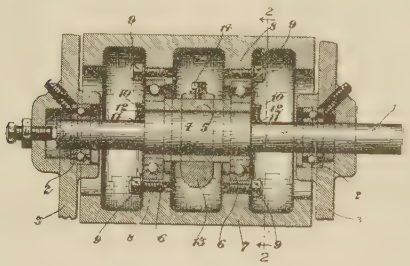
1. A device of the character described, comprising a brake-lever pivoted intermediate of its ends and adapted to have a portion thereof form braking relation with the turn-table of a phonograph, one end of said lever constituting a handle-portion, a pivoted latch-member disposed along the path of movement of the inner end of the brake-lever which is adapted to have interlocking engagement with an intermediate point of the latch-member, a spring secured to the inner end of the brake-lever and to said latch-member whereby they are held under tension, a

trip-member pivotally secured at the outer end of the latch-member, and means intermediate of the trip-member



and latch-member whereby a frictional relation between the two members is provided after a predetermined degree of independent movement by the trip-member.

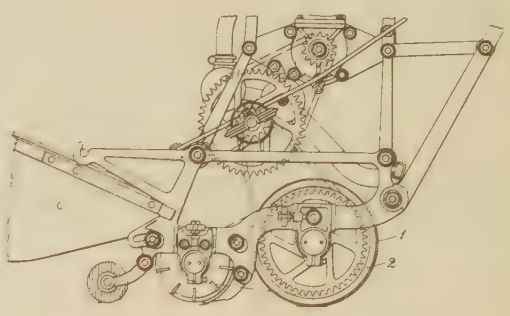
1,419,915. ROTARY COMPRESSOR OR ROTARY ENGINE. PERCY L. BOWSER, St. Louis, Mo. Filed May 13, 1920. Serial No. 381,199. 10 Claims. (Cl. 230—30.)



1. In an apparatus of the class described, a rotor shaft, a cylindrical enlargement on said shaft having its axis eccentric with respect to the axis of the shaft, a sleeve on said enlargement having its axis eccentric with respect to said shaft and said enlargement, a spring connecting said sleeve with another one of said parts and tending to move said sleeve relative to the shaft, revoluble bearings supported by said sleeve, and a rotor element supported by said bearings.

1,419,916. POWER-DRIVEN LAWN MOWER, ROLLER, AND THE LIKE. GEORGE F. BULL, Birmingham, England, assignor of one-half to Charles H. Pugh, Limited, Birmingham, England. Filed July 8, 1921. Serial No. 483,125. 3 Claims. (Cl. 180—20.)

1. A power driven lawn mower having a driving shaft, two end roller members mounted upon the shaft and a centre roller member also mounted thereon which is of slightly larger diameter than the end rollers; in combination with means for positively driving the centre roller member only from the shaft, means for normally allowing the two end members to rotate freely upon the

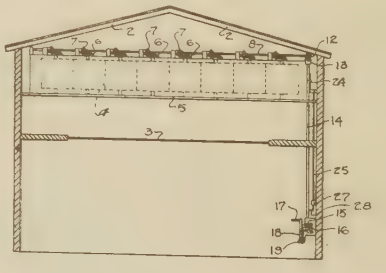


driving shaft and means for locking the end rollers to the said shaft if desired.

1,419,917. ROTARY CUTTER FOR FORMING OR RENEWING GIN OR LINTER SAW TEETH. WARNER H. CAMP and ROBERT H. BUTTERS, Atlanta, Ga., assignors to The Butters-Camp Mfg. Co., Atlanta, Ga., a Corporation of Georgia. Filed Apr. 11, 1919. Serial No. 289,221. 4 Claims. (Cl. 29—103.)

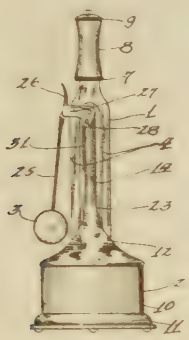
1. As an element of a machine for sharpening linter saws an angular bevel cutter adapted by operation on the sides of a saw or saw blank to cut saw teeth therein and having a hub and a plurality of radiating teeth, each provided with upper and lower cutting edges in the plane of its front face, said edges extending divergingly from their peripherally located meeting point to said hub, the lower edge being a concavely curved generatrix operative to generate in a major plane of the saw a line which determines the location and outline of the back of the saw tooth and no point of which is located inward beyond a straight line drawn between the throat of the saw tooth and its point.

1,419,918. ADJUSTABLE ILLUMINATION DEVICE FOR SKYLIGHTS. LAWRENCE X. CHAMPEAU, Jersey City, N. J. Filed Sept. 16, 1920. Serial No. 410,793. 11 Claims. (Cl. 88—58.)



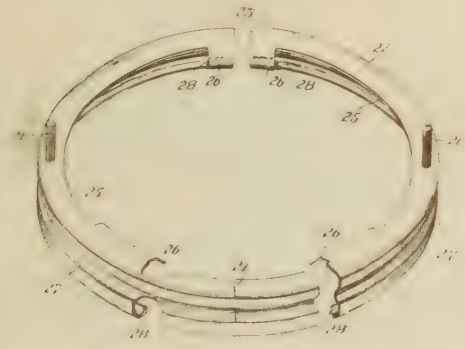
1. A skylight illuminating device including a support and having members mounted on vertical axes and movable on said support to present a surface to the sun at substantially a right angle to a vertical plane including the rays of the sun falling upon such surface as the sun changes its position during the day.

1,419,919. MASTER TUNING FORK AND SUPPORTING RESONATOR. JOHN C. DEAGAN, Chicago, Ill. Filed Feb. 3, 1920. Serial No. 356,059. 14 Claims. (Cl. 84—457.)



10. A tuning fork having a recess between the tines thereof, and a supporting member seating in said recess the mouth of said recess being larger than the body thereof.

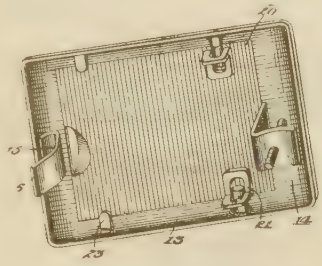
1,419,920. LIGHTING FIXTURE. ANTON DVORAK, Berwyn, Ill., assignor to Beardslee Chandelier Manufacturing Company, a Corporation of Delaware. Filed Apr. 2, 1921. Serial No. 457,956. 9 Claims. (Cl. 240—115.)



1. In a lighting fixture, a holder comprising a split annular member of resilient metal provided at top and bottom with inwardly disposed lips or lugs adapted to engage with the flanged neck of separate pieces of glassware of the fixture, a split resilient member adapted to encircle the first mentioned member to maintain the same in contracted condition, and means whereby the first member may be removably secured to the housing or shell of the fixture.

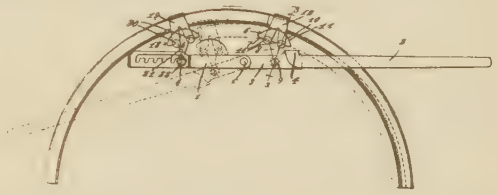
1,419,921. CRUSHED-FRUIT JAR. ARTHUR W. EICHMAN, Decatur, Ill., assignor to Adolph Mueller, trustee, Decatur, Ill. Filed Apr. 14, 1921. Serial No. 461,320. 12 Claims. (Cl. 215—37.)

5. The combination with a jar having a cover seat with an undercut wall, of a cover comprising an apertured frame having a wide section at one end fitted to said seat, a lid fitted to the frame aperture, a depending and outwardly projecting lug fixed to the underside of said frame at one end to engage the undercut wall of said jar, substantially L-shaped lug fulcrumed on the wide section



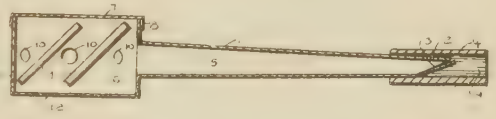
of said frame to engage the undercut wall of said jar, and a clamping screw to engage and hold said L-shaped lug in place.

1,419,922. AUTOMOBILE TOOL. LEVI L. GILBERT, Chicago, Ill. Filed July 14, 1920. Serial No. 396,052. 2 Claims. (Cl. 157—1.)



1. In a rim tool, a main member; a lever; rim grips; rim retainers cooperating with the rim grips, each retainer having two fulcra on the corresponding grip, one fulcrum being effective when the lever is swung in one direction, and the other fulcrum being effective when the lever is swung in an opposite direction; means for pivoting one grip to the main member; means for pivoting the other grip to the lever; and means for pivoting the lever to the main member.

1,419,923. NOISEMAKER. ANTOINE L. GIRARD, Sterling Junction, Mass. Filed Nov. 22, 1920. Serial No. 425,747. 7 Claims. (Cl. 46—46.)

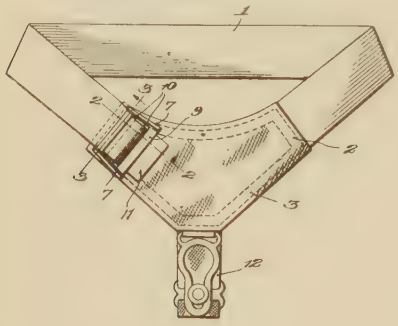


1. The combination of a horn having a mouthpiece at one end thereof, a cylindrical hollow chamber formed integrally upon said horn at its opposite end and having an opening disposed at right angles to the longitudinal axis of said horn, and disk-shaped elements introduced into said chamber so as to hold said elements against displacement, said chamber having provision for expelling air blown into said chamber from said horn.

1,419,924. MAN'S GARTER. MYRON B. HAMMOND and HENRY H. TAYLOR, Bridgeport, Conn., assignors to The Thomas P. Taylor Co., Bridgeport, Conn., a Corporation of Connecticut. Filed Oct. 29, 1921. Serial No. 511,408. 1 Claim. (Cl. 241—6.)

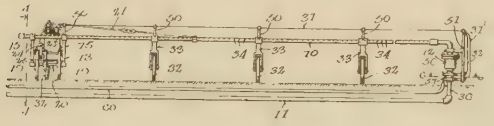
In a garter, an elastic webbing, a nonelastic pad having a pair of ends each of approximately the same width as that of the elastic webbing and having one of said ends secured to an end of said webbing, a clasp having

interengaging male and female members, one of which latter is adjustably carried by the opposite end of the elastic webbing and is substantially of the same width



as that of the webbing while the other clasping member is substantially of the same width as that of the free end of the pad and is secured to the latter so as to substantially coincide with the free edge thereof.

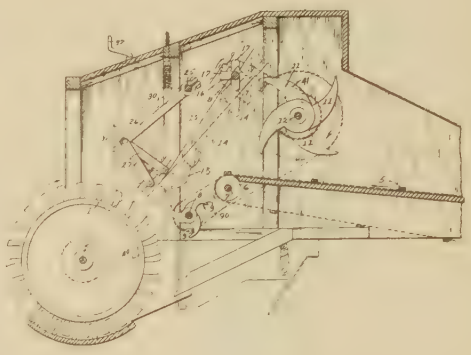
1,419,925. SPRINKLING APPARATUS. WILLIAM HEINE, Milwaukee, Wis. Filed Nov. 28, 1919. Serial No. 341,203. 5 Claims. (Cl. 299—54.)



1. In a device of the class described, the combination of a radial distributing pipe capable of rotation about a central pivotal member, means for supplying a liquid to said pipe for discharge therefrom at various points along the length of said pipe, a plurality of carriages disposed at different points along the length of said distributing pipe for supporting and driving the said pipe, said carriages each traveling in a circular path and at different circumferential speeds in accordance with their different radial positions during the entire operating period of the device, an individual electric motor on each of said carriages for driving the same, a conductor extending along said pipe for supplying current to said electric motors, a single control means for controlling the current supplied to all of said electric motors, said electric motors automatically proportioning their effective torques to the traction resistances encountered by their carriages, whereby to maintain a definite ratio of differential speeds between said carriages for driving and retaining said distributing pipe in a substantially straight radial line.

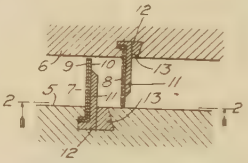
1,419,926. THRASHING-MACHINE FEEDER. MARTIN L. HEINEKE, Springfield, Ill., assignor to Heineke & Company, Springfield, Ill., a Corporation of Illinois. Filed Jan. 26, 1918. Serial No. 213,849. 14 Claims. (Cl. 130—1.)

1. A feeder for threshers comprising the combination of a main conveyor, a retarder located beyond and below the discharge end of the conveyor, a set of rakes inclined downwardly from a point substantially above the discharge end of the conveyor to a point substantially above the retarder, means for reciprocating said rakes, supporting means for the lower ends of the rakes adapted to permit their upward movement extended above the paths of normal reciprocation by said reciprocating means, and means operating independently of the speed of movement of said parts and adapted to be positively operated



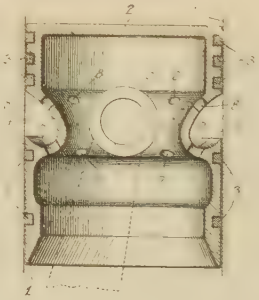
from the rakes during their extended upward movement to control the movement of said main conveyor independently of that of the retarder.

1,419,927. PACKING. FRANCIS HODGKINSON, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Co., a Corporation of Pennsylvania. Filed May 24, 1918. Serial No. 236,415. 9 Claims. (Cl. 286—10.)



1. A packing comprising a mounting member, a rigid pressure resisting segmental ring and means for preventing leakage through the gaps between segments of said ring consisting of a plurality of flexible segmental laminations arranged so that the gaps between the said segments are not coincident.

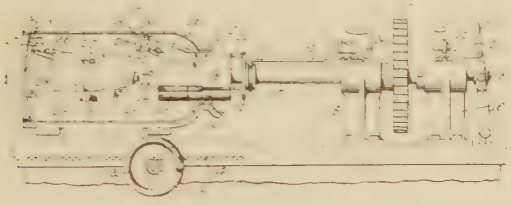
1,419,928. PISTON. KIRK D. HOLLAND, Chicago, Ill. Filed Apr. 28, 1919. Serial No. 293,073. 3 Claims. (Cl. 74—108.)



2. In combination with the cylinder of an internal combustion engine, a piston formed with a cylindrical ring-carrying head portion and with an intermediate portion consisting of an inwardly curved wall arranged to provide an external annular oil-collecting chamber and with a cylindrical skirt below said curved intermediate

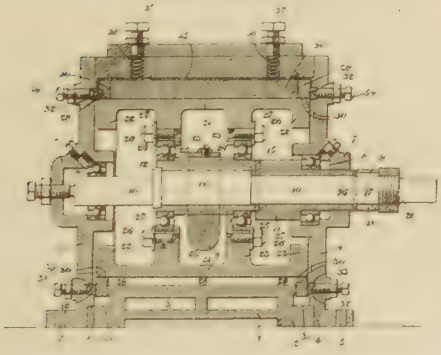
portion, such curved intermediate portion having drain ports adjacent its bottom arranged to drain into the crank case space and also having relief ports above said drain ports.

1,419,929. MACHINE FOR REFINISHING METAL CONTAINERS. THADDEUS A. JACKSON, Brooklyn, N. Y., assignor to Andrew O. Jackson, Brooklyn, N. Y. Filed Aug. 16, 1920. Serial No. 403,881. 5 Claims. (Cl. 153—32.)



1. In a machine of the class described, the combination with a holder for a container, of a plurality of rolls adapted to engage the side wall of the container, means for adjusting said rolls to engage the end wall of said container and means for driving the same, as described.

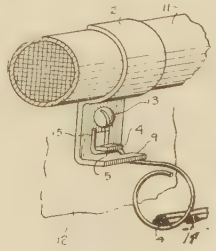
1,419,930. ROTARY COMPRESSOR OR ROTARY ENGINE. JAMES JOYNT and PERCY L. BOWSER, St. Louis, Mo., assignors to Arctic Rotary Pump Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 12, 1920. Serial No. 358,188. 11 Claims. (Cl. 230—30.)



1. In an apparatus of the class described, a stator case, a rotor mounted within the stator, a shaft journaled in the stator, a cylindrical enlargement on the shaft having its axis eccentric with respect to the axis of the shaft, a sleeve mounted on said enlargement for adjusting turning movement relative thereto, an abutment on said enlargement for one end of said sleeve, a device for locking said sleeve in different adjustments relative to said enlargement, and anti-friction bearing elements supported by said sleeve for supporting the rotor.

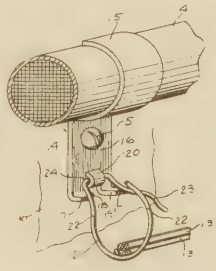
1,419,931. CONDUIT OR CABLE CLAMP AND BRIDLE RING. JOHN KARITZKY, Garwood, N. J., assignor, by mesne assignments, to Henry B. Newhall, Plainfield, N. J. Filed Oct. 14, 1920. Serial No. 416,979. 2 Claims. (Cl. 248—36.)

1. A conduit or cable clamp provided with a hook portion and a base, the base being provided with a flange having an open slot to form a locking shoulder to cooperate with a bridle ring, the base being also provided with a struck up bendable lug or tongue extending out from



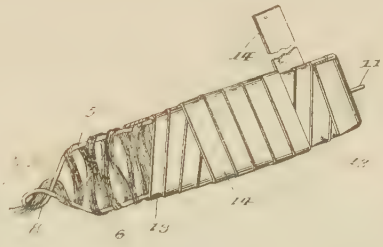
the surface of the base and adapted to be peened or bent down in the direction of the flange and over a portion of a bridle ring.

1,419,932. CONDUIT OR CABLE CLAMP AND BRIDLE RING. JOHN KARITZKY, Garwood, N. J., assignor, by mesne assignments, to Henry B. Newhall, Plainfield, N. J. Filed Oct. 14, 1920. Serial No. 416,982. 3 Claims. (Cl. 248—36.)



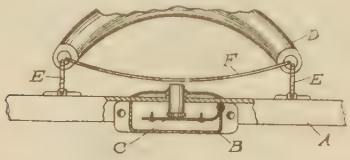
1. A conduit or cable clamp formed of a single thickness of material and bent to form a hook portion to support a cable and a base portion to lie flat against a wall or other suitable support, the base being provided with a slotted flange, a portion of the slotted flange being bent back on the upper surface of the base to form a finger or lug adapted to be bent over a portion of a bridle ring to secure the bridle ring on the exposed surface of the base.

1,419,933. METHOD AND APPARATUS FOR WAVING HAIR. MARY KAYSER, Baltimore, Md. Filed June 7, 1921. Serial No. 475,683. 7 Claims. (Cl. 132—36.)



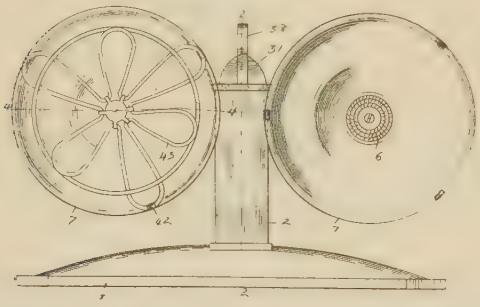
5. The herein described method for waving hair which consists in moistening the hair, winding the hair in a tortuous manner over the spaced sides of the frame, winding a strip of dry paper over the hair on the frame, winding a strip of moist paper over the first-named strip, holding of the described arrangement between the surfaces of bodies heated to a temperature to vaporize the moisture until the moisture has disappeared and finally freeing the hair.

1,419,934. AUTOMATIC OPENER FOR TRAVELING BAGS AND THE LIKE. BENJAMIN KLEMER, Providence, R. I., assignor of one-half to Mendel Goldring, Providence, R. I. Filed Nov. 29, 1921. Serial No. 518,668. 3 Claims. (Cl. 190—55.)



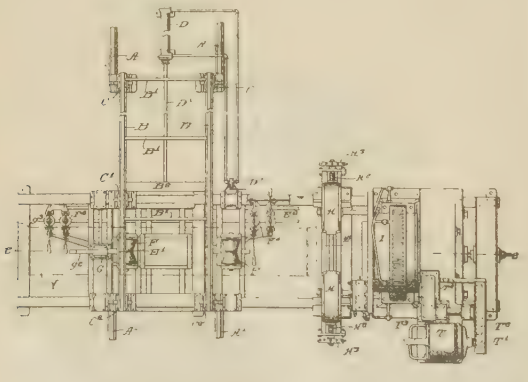
1. An automatic opener for traveling bags and the like consisting of a rigid member disposed above and parallel with the top of the bag frame and between and connecting the opposite ends of the bag handle and arranged and adapted on movement of the handle laterally in either direction to unlock the bag and allow it to open.

1,419,935. ELECTRICAL HEATER. FRANK KUHN and JAY A. HAND, Detroit, Mich., assignors to American Electrical Heater Company, Detroit, Mich., a Corporation of Michigan. Filed June 15, 1918. Serial No. 240,149. 3 Claims. (Cl. 219—34.)



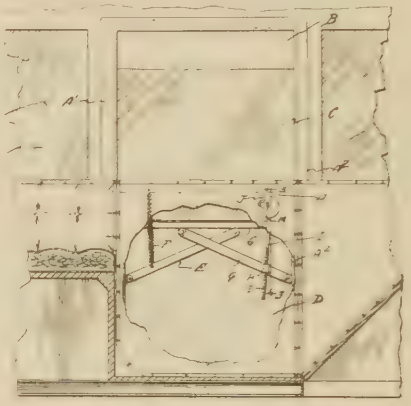
1. The combination with a support and an electric heating device, of an arm having its extremities respectively pivotally connected to said heating device and support, the axes of said pivotal connections being transverse to each other, and means creating frictional resistance at each of said joints to hold the parts adjusted in various angular relations.

1,419,936. PIPE-CUTTING-OFF MACHINE. JAMES B. LADD, Ardmore, Pa., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J., a Corporation of New Jersey. Filed Nov. 1, 1918. Serial No. 260,654. 4 Claims. (Cl. 81—191.)



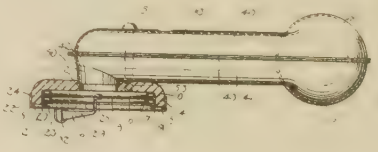
1. In a pipe cutting-off machine, the combination with a rotary cutter head, of means for moving a pipe into and out of an operative position relative to said cutter head, comprising supports on which said pipe may rest in axial alignment with the cutter head and along which the pipe may be adjusted longitudinally of said axis, a pipe carriage horizontally movable transversely to the cutter head axis and comprising arms located at a higher level than said supports and moved by the horizontal movement of the carriage into and out of a position in which they cross the vertical plane including the cutter head axis, and a vertically acting jack adapted to move a pipe between one position in which it rests upon said roller support and a second position in which it is located above said arms.

1,419,937. WINDOW-CONTROL MECHANISM. JOHN D. LAWRENCE and STANLEY W. NICHOLSON, Toledo, Ohio, assignors to The Dura Company, Toledo, Ohio, a Corporation of Delaware. Filed Oct. 11, 1920. Serial No. 416,245. 11 Claims. (Cl. 268—4.)



4. The combination with a slidable window member, of a frame having a chamber receiving said member in its open position, a control arm for said member arranged within said chamber and adapted to swing in a plane substantially parallel to that of the window member, a fulcrum support for said arm directly engaged by the arm and stationary within said chamber, a rotative threaded stem, a nut engaging said stem carried by the arm, and adapted to rock relative thereto, and means preventing binding of the stem due to the relative angular movement of the arm.

1,419,938. PHONOGRAPH. RAY H. MANSON, Elyria, Ohio, assignor to The General Phonograph Manufacturing Company, Elyria, Ohio, a Corporation of Ohio. Filed Jan. 13, 1916. Serial No. 71,813. 3 Claims. (Cl. 274—35.)



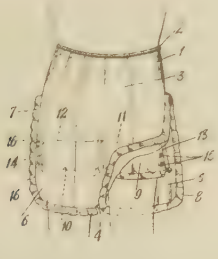
1. In a talking machine, the combination of a relatively heavy shallow circular cup having a perforation in the central part of the bottom thereof for the connection of a sound arm, a flexible gasket in the bottom of said cup adjacent the side thereof, a vibratory diaphragm in said cup on said gasket, a second flexible gasket similar in general to the first gasket on said diaphragm and within said cup, the peripheral edges of the diaphragm being positioned between the gaskets, a front for said

cup consisting of a flat-bottomed annular member adapted to extend over the edge of the cup, the outside wall of the front being substantially perpendicular to the bottom of the front and extending upwardly to form a collar adapted to frictionally engage the outside of the side of said cup to hold the front in position on the cup, a flange on the inner wall of said front substantially at right angles to the walls of said front, said flange extending over the second named gasket engaging the same and retaining said diaphragm and gaskets in position, and the top edges of the cup beveled away whereby said cup may be guided smoothly into position.

1,419,939. DIESTOCK. FRANK JAMES MARTIN, Greenfield, Mass., assignor to Martin Machine Company, Inc., Turners Falls, Mass., a Corporation of Massachusetts. Filed Mar. 5, 1921. Serial No. 449,904. 7 Claims. (Cl. 10—123.)

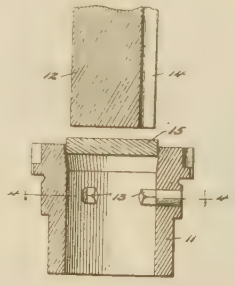
5. A die stock, comprising, a body provided with a die-receiving opening and a passage leading from said opening to one end of the body, a block mounted in said passage, clamping means to clamp said block between the walls of said passage, and a clamping member adjustably mounted in said block and adapted to engage a die in said opening.

1,419,940. LADY'S UNDERGARMENT. MABEL NORTON MILLS, New York, N. Y. Filed Apr. 7, 1921. Serial No. 459,327. 2 Claims. (Cl. 2—122.)



2. A lady's undergarment comprising a petticoat portion and a drawer portion, said petticoat portion being slit at the sides thereof, a gore in the center of the front of said petticoat portion, a narrow strip of material joining the bottom of the gored portion with the bottom of the back of the petticoat portion, said drawer portion having drawer legs separable at their sides within the petticoat portion and attached thereto.

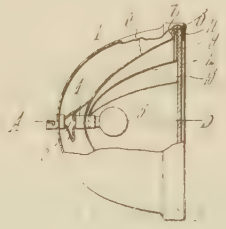
1,419,941. WAD BUSHING FOR LOADING MACHINES. FRANKLIN W. OLIN, Alton, Ill., assignor to Western Cartridge Company, a Corporation of New Jersey. Filed Apr. 18, 1921. Serial No. 462,233. 6 Claims. (Cl. 86—30.)



1. The method of ramming wads into shells which comprises forcing them through a wad bushing provided with sharp projections on its inner wall prior to inserting them into the shells, whereby the periphery of each wad is scored sufficiently to permit passage of air through said scored places, and applying pressure to the unscored portions to seat them in place.

6. A wad ramming bushing having nicking means on its inner wall for engaging and scoring wads as they are forced through it to permit escape of air trapped in the shell.

1,419,942. VEHICLE HEADLIGHT. OTTO J. REICKERT, Springfield, Mass. Filed Aug. 5, 1920. Serial No. 401,475. 1 Claim. (Cl. 240—48.2.)

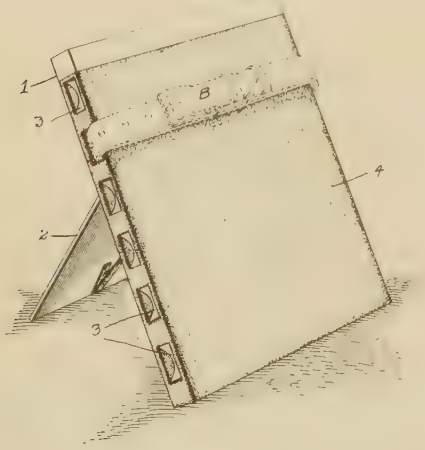


The combination in a vehicle headlight of a casing, a reflector, a lamp socket projecting therefrom, a lens, a deflector located within the upper part of the reflector comprising a curved sector of bendable reflecting material having an aperture near one end thereof for embracing the lamp socket and a flange at its other end having a portion bent at right angles thereto that lies against the peripheral edge of the lens whereby the deflector is supported in a desired spaced and angular relation with respect to the reflector thereby directing rays downwardly and obliquely with respect to the horizontal axis of the reflector.

1,419,943. DIAPHRAGM FOR SOUND BOXES. JAMES EDWARD ROBINS and WILLIAM STALLWOOD SLACK, Hagersville, Ontario, Canada. Filed Dec. 1, 1920 Serial No. 427,514. 4 Claims. (Cl. 181—32.)

1. A diaphragm for sound reproducing instruments composed of the abdominal tunic of a bovine.

1,419,944. DISPLAY EASEL. LOUIS E. SADLER, Attleboro, Mass., assignor to The F. H. Sadler Company, Attleboro, Mass. Filed Nov. 15, 1921. Serial No. 515,234. 1 Claim. (Cl. 211—24.)

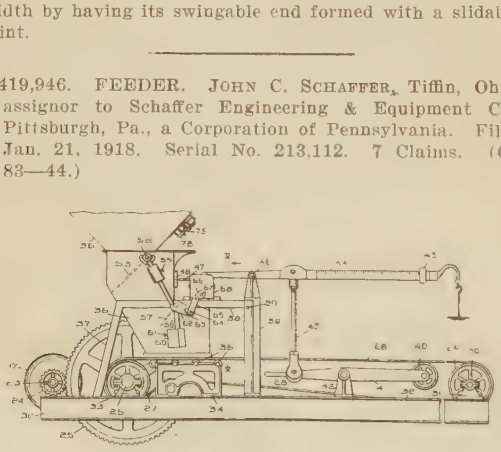


In a display easel for belts, a body having a belt supporting central part, and a pocket in each side of the body, said pockets being spaced apart at such distance so as to receive the doubled ends of a belt therein, said pockets having spaced front and rear walls to provide abutment against which the doubled ends of a belt are adapted to frictionally press to hold the central part of a belt in position.

1,419,945. HAT HOLDER. WALTER SANDS, Minneapolis, Minn. Filed Dec. 22, 1920, Serial No. 432,592. Renewed Dec. 9, 1921. Serial No. 521,248. 2 Claims. (Cl. 45—13.)

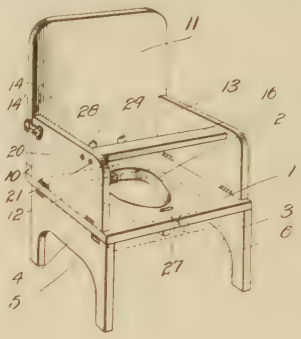
1. A hat holding device comprising a frame securable to a fixed object, a hat supporting device mounted on the frame and comprising a spring pressed swingable yoke attached at one end to the frame and adapted to embrace loosely the crown or body of the hat and press the brim of the hat gently against the object holding the frame, said swingable yoke being adjustable as to its width by having its swingable end formed with a slidable joint.

1,419,946. FEEDER. JOHN C. SCHAFFER, Tiffin, Ohio, assignor to Schaffer Engineering & Equipment Co., Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 21, 1918. Serial No. 213,112. 7 Claims. (Cl. 83—44.)



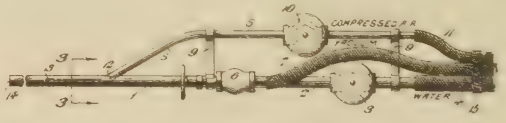
1. A material supply way, and a pair of vanes separately mounted in said way, one of said vanes being provided with means for acting directly on the material in affecting the flow thereof, and the other vane having independent means indirectly acted on by the material for affecting the flow thereof.

1,419,947. CHAIR. JOHN C. SCHOUTEN, Kansas City, Mo. Filed Oct. 28, 1921. Serial No. 510,998. 1 Claim. (Cl. 155—31.)



A chair comprising a seat, legs foldable under the seat, arms foldable from the side edges toward the center of the seat, a brace having means at one end for engagement with one of the arms and a sliding latch at the other end for engagement with an opening in the other arm, an actuator for the movable member of the latch and at right angles to the movable member, the brace being receivable in the space between the free edges of the arms when they are folded onto the seat, the actuator being receivable in a slot in the seat to prevent longitudinal movement thereof when it rests upon the seat between the edges of the arms, and a back hinged to the rear edge of the seat and foldable over the arms and over the brace when the arms are folded on the seat and when the brace is between them with the actuator in the slot.

1,419,948. CLEANING DEVICE. SIDNEY L. SELLARS, Philadelphia, Pa. Filed Apr. 14, 1920. Serial No. 373,684. 2 Claims. (Cl. 299—140.)

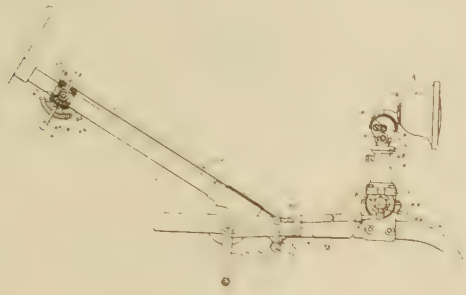


1. In a cleaning device adapted to be manually supported and manipulated, a sectional water pipe of substantially uniform bore throughout its length and having one end forming a discharge end of the cleaning device and its other end in communication with a source of water supply, a fitting connecting said sections, a vacuum pipe in valve controlled communication with said fitting, a valve controlled compressed air pipe spaced from said water pipe and at its forward end extending into said pipe to discharge on the outlet side of said fitting, and a valve controlling said water pipe.

1,419,949. DRIVING LAMP FOR VEHICLES. DAVID CHALMER SHARP and WALTER R. DIEHL, Pittsburgh, Pa. Filed Apr. 14, 1921. Serial No. 461,334. 8 Claims. (Cl. 240—61.)

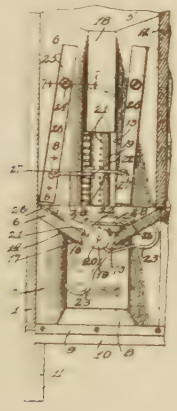
1. In a lamp assembly for vehicles the combination of a lamp column, a member rotatable about a vertical axis within said column, a slotted cap mounted on said member to rotate therewith, a lamp supporting member rotatable on said cap about a horizontal axis and having a limb ex-

tending through the slot in the cap into the interior of the lamp column, connections for transmitting movement of



rotation to said cap, and independently operable means connected with said limb for transmitting movement of rotation to said lamp supporting member.

1,419,950. STOCK FEEDER. EDWARD C. SHAW, Galesburg, Ill., assignor, by mesne assignments, to Shaw, Welsh & Company, a Corporation of Illinois. Filed July 7, 1919. Serial No. 309,011. 7 Claims. (Cl. 119—53.)



1. A stock feeder embracing a hopper having a discharge opening therein, a trough therebelow, a rocker in said opening, means in said trough projecting through the rocker to permit operating of the rocker, links in said hopper connected with said means, and agitators pivotally mounted in said hopper and connected with said links to be actuated thereby when said rocker is operated by said means.

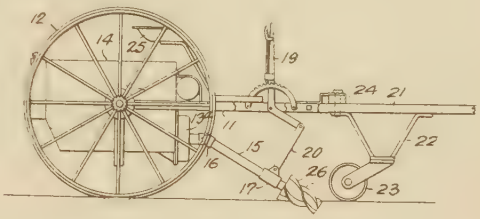
1,419,951. PAPER PRODUCT AND PROCESS OF MAKING THE SAME. EDWARD GOODRICH ACHESON, New York, N. Y. Filed July 15, 1920. Serial No. 396,461. 4 Claims. (Cl. 92—21.)

1. In a process of making filled papers, the step consisting in incorporating with the pulp a filling material introduced in a deflocculated state.

1,419,952. SOAP COMPOSITION AND PROCESS OF MAKING SAME. EDWARD GOODRICH ACHESON, New York, N. Y. Filed Oct. 5, 1920. Serial No. 414,915. 3 Claims. (Cl. 87—5.)

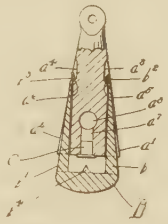
3. Process of making a soap composition, comprising subjecting clay to a deflocculating operation, whereby a portion of the same is transformed to the colloidal state; then reflocculating the colloidal clay in presence of the residual fine material, and incorporating the product with soap-stock.

1,419,953. CULTIVATING IMPLEMENT. CHARLES J. BINMORE, Montreal, Quebec, Canada. Filed Apr. 19, 1921. Serial No. 462,601. 1 Claim. (Cl. 97—52.)



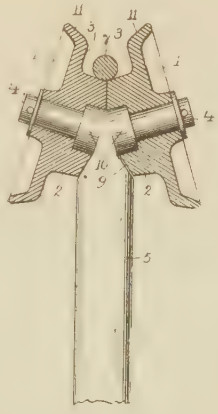
A device of the class described, comprising a wheeled framework, a source of power thereon, a plurality of flexible shafts driven from said source of power, a supplementary frame connecting and forming a support for the shafts and a single lever having link connection with said supplementary frame and operable to regulate the inclination of said shafts, and cutters carried by said shafts.

1,419,954. BURGLAR ALARM. LOUIS BRICHETTO, Cincinnati, Ohio. Filed Sept. 15, 1921. Serial No. 500,950. 2 Claims. (Cl. 116—78.)



2. A burglar alarm comprising a pear-shaped cartridge holder having substantially parallel spaced ways extending longitudinally thereof, and a bore in its larger end, the ways terminating intermediate the ends of the holder, and shoulders formed on the holder at the inner ends of the ways, a detonating cap, arms extending in substantial parallelism from the cap, adapted to be inserted in the ways, spring members formed on the free ends of the arms adapted to yieldingly engage the shoulders to suspend the cap from the holder, and a firing pin extending from the cap adapted to be projected into the bore in the larger end of the holder.

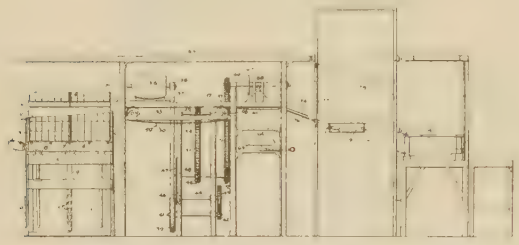
1,419,955. TROLLEY. GEORGE BRYAR, Boston, Mass. Filed Oct. 22, 1921. Serial No. 509,567. 1 Claim. (Cl. 191—63.)



A trolley comprising two wheels having relatively inclined axes, each wheel consisting of a hub and a flange,

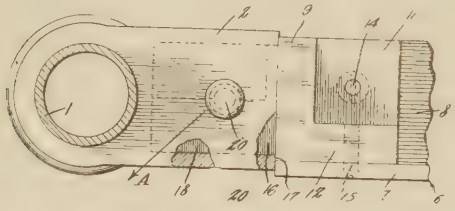
the ends of the hubs contacting at their points of normal engagement with a trolley wire, the flanges being by the inclination of their axes caused to overhang the wire, and each flange having a conically disposed rim for easier engagement with the wire when being returned thereto.

1,419,956. METHOD OF PREPARING EGGS FOR STORAGE. VICTOR CLAIREMONT, San Francisco, Calif. Filed July 26, 1919. Serial No. 313,570. 2 Claims. (Cl. 99—8.)



1. The method of preparing eggs for storage which consists in seating them in openings in a frame, immersing the frame with the eggs contained therein in a preserving solution whereby defective portions of eggs unfit for storage are rendered visible, removing from the frame any eggs unfit for storage, removing the frame and eggs from the solution, placing on the eggs a second frame, inverting the two frames to dispose the former lowermost portions of the eggs upward, removing the first frame, placing a filler on said eggs whereby the latter are individually enclosed, and subsequently candling the same.

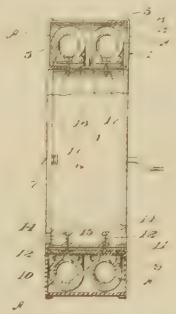
1,419,957. BED LOCK. POPE COBB, Brownsville, Tenn. Filed Mar. 29, 1922. Serial No. 547,765. 1 Claim. (Cl. 5—55.)



In a device of the class described, a bed post having a socket comprising walls; a rail provided with a shoulder, and having a tongue received in the socket, the cross sectional area of the tongue being approximately one-half the cross sectional area of the socket, the tongue having a groove in its inner surface, and the socket having an opening; and a retaining pin inserted into the opening and into the groove, the opening and the groove being so located with respect to each other that, when the pin is inserted into the opening and into the groove, the pin will clamp the shoulder against the end of the socket and clamp the tongue against one wall of the socket.

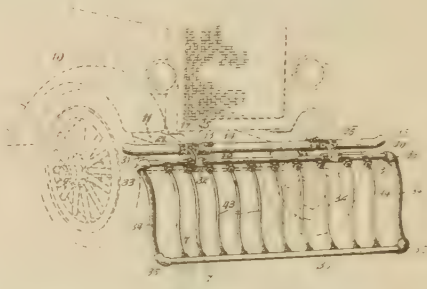
1,419,958. TIRE CARRIER. JOSEPH B. COLLINS, Detroit, Mich. Filed May 2, 1918. Serial No. 232,139. 2 Claims. (Cl. 224—29.)

1 A tire carrier comprising an annular hollow body open at one side to receive a plurality of rims with tires in superposed relation, transverse supporting bars located at one side of the body adapted to initially receive demountable rims thereon, a smooth surfaced clamping plate arranged transversely in the opposite side of the body over which the rims are adapted to fit, and means



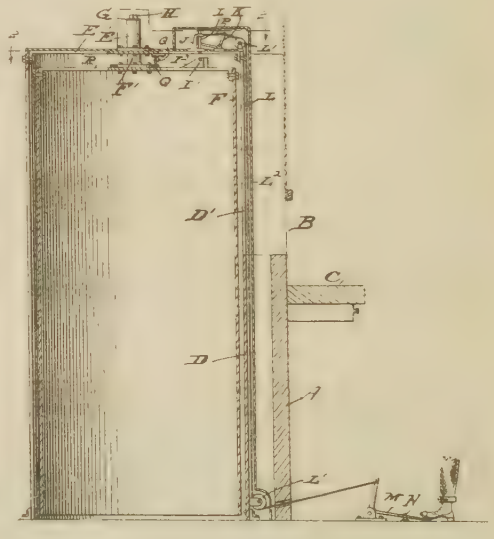
for independently adjusting the opposite ends of the clamping plate to bind the same against the tires.

1,419,959. VEHICLE FENDER. EDWARD S. CZARCZYNSKI, Buffalo, N. Y. Filed May 2, 1921. Serial No. 466,359. 12 Claims. (Cl. 293—54.)



3. A vehicle fender comprising a supporting tube, a bearing block arranged within said tube, a stub shaft journaled in said bearing block coaxially with said supporting tube, a fender arm secured to said stub shaft, and a helical spring coiled around said stub shaft and connected at its opposite ends to said fender arm and to said bearing block.

1,419,960. SAFETY BOOTH FOR CASHIERS' CAGES. EMORY E. DELL, Detroit, Mich. Filed Feb. 16, 1920. Serial No. 358,891. 3 Claims. (Cl. 20—1.01.)



1. A safety booth for cashiers' cages and the like, including an outer shell or casing having a relatively nar-

row window opening and a relatively narrow door opening, a rotatable member consisting of a cylindrical inner shell or casing provided with a relatively narrow door opening adapted to register with either the window opening or the door opening of the booth, said inner shell or casing being also movable to carry its opening to an intermediate position between the door opening and the window opening so as to be closed by the outer shell or casing for confining a person within the said inner shell or casing, and means for locking the rotatable member in such intermediate position for closing all of the said openings.

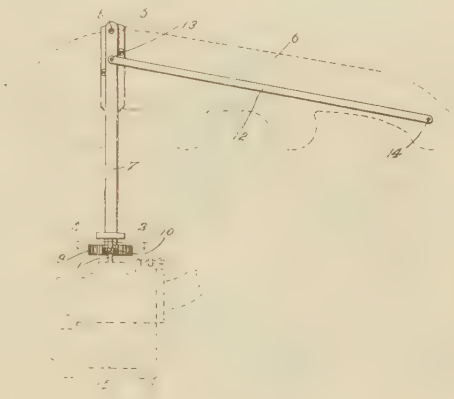
1,419,961. BAYONET. CHARLES DE MAUBAIGE, St. Sixte, Quebec, Canada. Filed Dec. 27, 1921. Serial No. 525,222. 5 Claims. (Cl. 42—86.)

3. A retractile bayonet comprising in combination with a gun barrel a sheath rigidly mounted underneath the gun barrel and formed with a longitudinal slot and longitudinal grooves, a handle formed with ribs slidably mounted in the longitudinal grooves, a screw fastening the handle to the blade and extending through the longitudinal slot, a lever pivotally mounted intermediate of its length in a recess provided in the handle, pins at each end of the lever extending in opposite directions, the pins formed on the lower face of the lever being designed to engage recesses formed at each end of the sheath, and resilient means designed to retain the pins into engagement with one of the recesses.

1,419,962. AEROPLANE. WILLIAM LESLIE DENHAM, Birmingham, Ala. Filed Nov. 6, 1920. Serial No. 422,226. 3 Claims. (Cl. 244—15.)

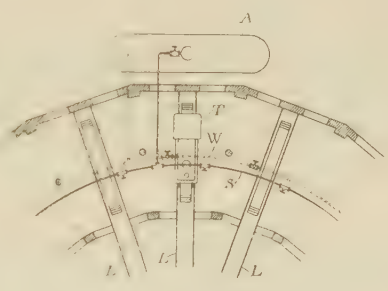
1. In combination, a fuselage having a vertical superstructure, a series of tracks mounted on the super-structure, each track being circular and having its plane horizontal, a plurality of series of wings supported by the tracks and mounted to revolve about the super-structure, means for revolving the upper series of wings, means for revolving the lower series of wings in the opposite direction, and means for propelling the fuselage forwardly, the tracks being channel-shaped and having their channels outwardly and having the edges of the side walls turned inwardly to form bearing edges, rims encircling the tracks and having grooved wheels within the tracks and engaging the inturned edges, and guys between the wings and the rims, the propelling means for the wings comprising independent motors, a motor being provided for each wing, and a propeller in connection with each motor.

1,419,963. AUTOMATIC CARBURETOR CONTROL. SAMUEL E. FOREMAN, Paducah, Ky. Filed June 1, 1921. Serial No. 474,238. 2 Claims. (Cl. 123—106.)



1. In combination with the exhaust manifold and carburetor of an internal combustion engine, a pivoted bar supported by the exhaust manifold, a bar having connection with the pivoted bar and adapted to move with the expansion of the manifold, and means for connecting the first mentioned bar and valve of the carburetor, whereby movement of the pivoted bar results in a relative movement of the valve member.

1,419,964. LOCOMOTIVE SHED OR THE LIKE. NILS GUSTAF HEZEKIEL FRENNE, Stockholm, Sweden, assignor to Aktiebolaget Vaporackumulator, Stockholm, Sweden, a Corporation. Filed Feb. 21, 1921. Serial No. 446,868. 1 Claim. (Cl. 104—51.)

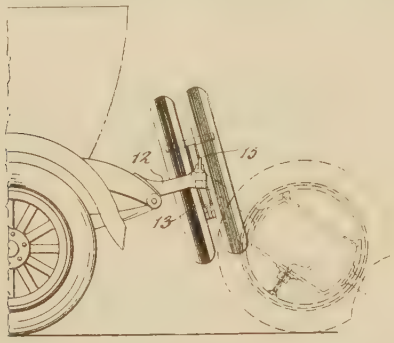


An arrangement in locomotive sheds or other similar places where locomotives are brought in either for changing water, or in order to stand ready for service during a longer or shorter period, consisting in a steam and water storer provided with connecting means by which a locomotive boiler may be connected thereto to permit steam or water to enter the said storer from the locomotive boiler, or, vice versa, to permit steam or water to enter a locomotive boiler from the said storer, so that the heat of the locomotive, or part thereof, in the form of steam or heated water, may be stored with only small losses of heat, in order to make it possible to supply this heat back again to the boiler of the locomotive, when required.

1,419,965. TIRE CARRIER. HARRY R. GERRIE, Montreal, Quebec, Canada. Filed Nov. 11, 1920. Serial No. 423,349. 10 Claims. (Cl. 224—29.)

1. A tire or wheel carrier comprising a swinging carrier bar normally disposed to extend across the rear end of a

vehicle and having one end releasably connected to the vehicle, and an inclined pin establishing a pivotal con-

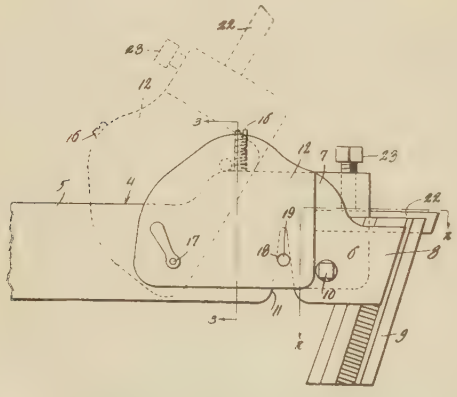


nection between the other end of the bar and the vehicle and serving to permit the bar to swing downwardly and outwardly from the vehicle when released.

1,419,966. TELEPHONE OR DESK MEMORANDUM. FRANK EARHART HARE, Manchester, Iowa. Filed Dec. 23, 1921. Serial No. 524,400½. 1 Claim. (Cl. 211—32.)

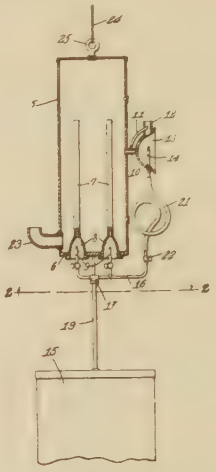
A telephone memorandum holder having a smooth writing plate with a vertical side arm extending upward on each side at the rear thereof, each arm having a bearing for a roll spindle, a spindle for a memorandum strip roll, and a horizontal member projecting inward from each arm over the writing plate for the guiding of the memorandum strip thereover as it unrolls, and a friction clamp at the forward end of the writing plate arranged to guide the memorandum strip and afford a tearing edge.

1,419,967. ATTACHMENT FOR TOOL HOLDERS. JOSEPH HENNING, Newburgh, N. Y. Filed Dec. 15, 1920. Serial No. 430,905. 4 Claims. (Cl. 29—96.)



1. A tool holder having a V shaped slot, a complementary tool holder pivoted thereto and having an opening adapted for alinement for the slot at times, and a pin adapted to extend through the opening and the slot for retaining the complementary holder in an operative position.

1,419,968. GUN. HILDING J. JOHNSON, Salt Lake City, Utah. Filed July 1, 1921. Serial No. 481,912. 4 Claims. (Cl. 116—23.)

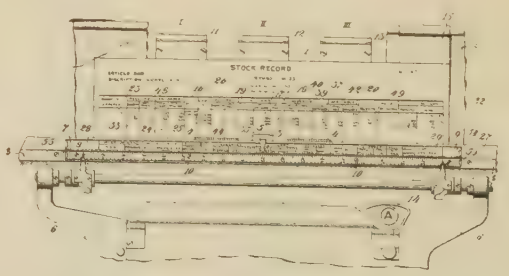


2. In a device of the character described, a lamp chamber, pipes extending into the lamp chamber, the pipes having their upper ends spaced from the upper end of the lamp chamber, means for supplying gas to the lamp chamber, an adjustable discharge pipe disposed at one end of the lamp chamber and having communication with the interior thereof, a burner supported by the lamp chamber, means for igniting gas in the lamp chamber, and flexible means for supporting the device.

1,419,969. PROCESS FOR THE MANUFACTURE OF DICHLORETHYLENE. FELIX KAUFLER, Munich, Germany, assignor to the Firm Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie G. m. b. H., Munich, Bavaria, Germany. Filed July 18, 1921. Serial No. 485,671. 2 Claims. (Cl. 260—165.)

1. The process for manufacturing dichlorethylene which consists in bringing vapours of tetrachlorethane and steam at ordinary atmosphere pressure into contact with a metal capable of withdrawing chlorine from organic substances.

1,419,970. TYPEWRITING MACHINE. WENDELL P. KEENE, Brooklyn, N. Y., assignor to Underwood Typewriter Company, a Corporation of Delaware. Filed Aug. 5, 1919. Serial No. 315,398. 17 Claims. (Cl. 197—191.)

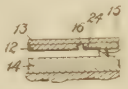


1. A scale for use in positioning a typewriter carriage for posting in various columns on a ledger-sheet, comprising variously colored sections adapted to correspond with posting mediums of like colors to indicate the column in which posting from each medium is to be effected.

1,419,971. PROCESS OF TREATING MINERALS CONTAINING IRON, TITANIUM, AND VANADIUM. BJÖRN PER FERDINAND KJELLBERG, Stockholm, Sweden. Filed Nov. 3, 1919. Serial No. 335,448. 3 Claims. (Cl. 23—13.)

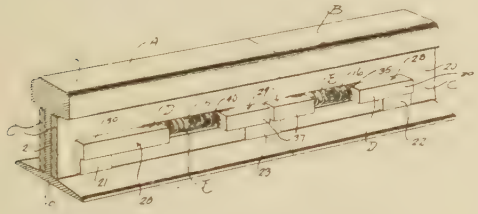
2. A modification of the method set forth in claim 1 and adapted to be used in the case that the starting material does not contain titanium but only iron and vanadium, characterized by treating the starting material with a dissolving or decomposing agent for said metals, evaporating the solution to dryness, roasting the dry product so as to transform the iron into insoluble oxides, and treating the roasted product with a solvent for vanadium compounds.

1,419,972. MOLD AND METHOD OF MAKING SAME. RALPH F. KNIGHT, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 26, 1920. Serial No. 361,425. 6 Claims. (Cl. 29—148.2.)



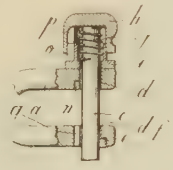
1. As a new article of manufacture, a two-member mold for the manufacture of rubber soles having sewing ribs, one of the members having a sole-edge-forming wall and the other member comprising two superposed plates permanently united, one of the plates having a slot extending through it so as to form with the exposed surface of the other plate a rib-forming groove.

1,419,973. RAIL JOINT. JESSE A. LEWIS and LESLIE L. REW, Niagara Falls, N. Y. Filed July 18, 1921. Serial No. 485,538. 5 Claims. (Cl. 238—260.)



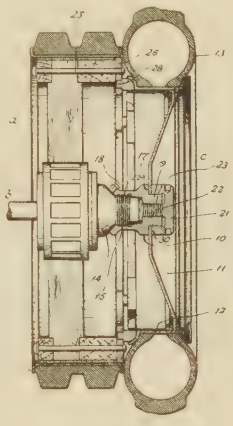
1. In a device of the above described class, the combination of rails, splice plates for disposition over the fencing ends of said rails, and resilient means connecting said splice plates to said rails to permit longitudinal movement of said rails with respect to each other.

1,419,974. SHACKLE, CHAIN COUPLING, OR THE LIKE. JAMES MCLAUGHLIN, Pontardulais, Wales. Filed Mar. 10, 1921. Serial No. 451,283. 5 Claims. (Cl. 97—4.)



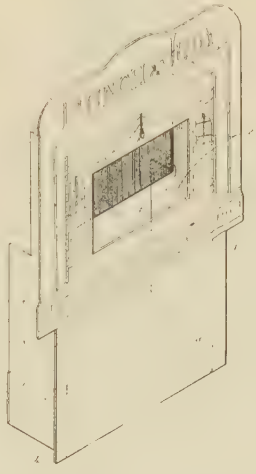
5. A shackle comprising a pin provided with a head and rotatably mounted and movable vertically in eyes formed in the ends of a substantially U-shaped member, a sleeve slidably mounted within the head and provided with a flange, a coiled spring on the pin having abutting relation with the head and flange, complementary means on the head and sleeve to cause rotation of the sleeve with the head, a lug on the end of the pin adapted to be seated in slots in the arms of the U-shaped member, one of said slots adapted to be engaged by the lug for locking the pin in position and diametrically disposed to the complementary means, the normal position of the complementary means indicating the seating position of the lug in said slot.

1,419,975. VEHICLE WHEEL. SEWARD H. MANCHESTER, Winsted, Conn. Filed June 6, 1921. Serial No. 475,207. 4 Claims. (Cl. 301—38.)



4. The combination with the usual vehicle wheel, of a member secured to the felly thereof and provided with spaced openings, an auxiliary wheel provided with lugs fitting in said openings, and means for locking said wheel together.

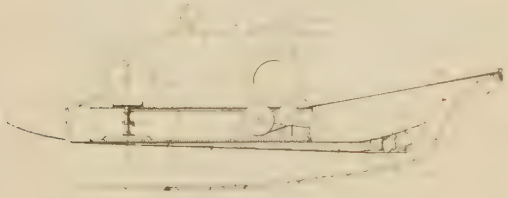
1,419,976. TOY PUNCH AND JUDY SHOW. THOMAS MATHEWS, deceased, by Annie Mathews, Leicester, England, and Harry Buckingham, London, England, administrators. Filed Nov. 26, 1920. Serial No. 426,612. 2 Claims. (Cl. 46—37.)



1. A toy Punch and Judy show comprising a collapsible card board structure of box like form, and having an opening in the upper part of its front, through which flat, cut-out figures are adapted to be displayed, and an opening in the lower part of the back for the insertion

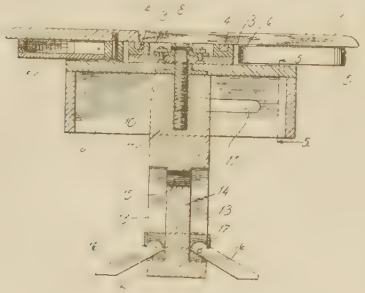
of the operator's hand and the figures to be displayed, and a set of cut-out card board figures, representing the characters in the play; a wire holder for said figures having united resilient limbs to be grasped by the operator for holding and manipulating the figures, said figures being detachably mounted on the ends of said limbs, substantially as described.

1,419,977. STEERING MECHANISM. GUSTAF THEODOR NELSON, Beaumont, Tex. Filed Mar. 10, 1921. Serial No. 451,375. 2 Claims. (Cl. 115—0.5.)



1. A pontoon comprising a hull, bearings carried thereby, vertically arranged spindles rotatably mounted on said bearings, horizontal arms connected intermediate their ends to the upper portions of said spindles and extended beyond the sides of the same for substantial distances, shoes carried by the outer ends of said arms at points spaced outwardly of the planes of said spindles, said shoes being adapted to be engaged by the front wheels of the motor vehicle, whereby the king bolts of the front wheels are disposed in alignment with said spindles.

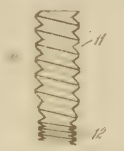
1,419,978. TABLE. EDWARD NIESEN, Iron Mountain, Mo. Filed Apr. 7, 1921. Serial No. 459,298. 1 Claim. (Cl. 45—117.)



In a table, a top, a screw-bolt carried by said top, a longitudinally slotted box releasably carried by said screw-bolt, a recessed and perforated leg, capable of disposal wholly within said box, formed with a terminal bore to receive said screw-bolt and provided with pin sockets, pins releasably connecting the slotted portions of said box and the pin sockets of said leg, notched folding feet pivoted in the recessed portions of said leg, and a ring slidable over the recessed portions of said leg for engagement with the notched portions of said feet in the extended position of the latter and adapted to encompass said feet in their folded position, the bore in said leg being adapted to receive the said screw-bolt when said leg is in inoperative position and wholly disposed within said box.

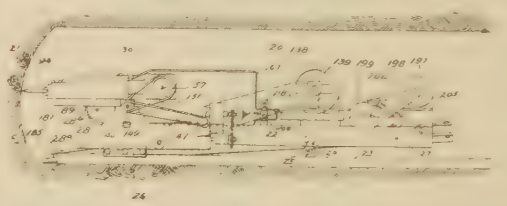
1,419,979. EXPANSION ANCHORAGE. JOHN EDWARD OGDEN, Cornwall, N. Y. Filed June 5, 1919. Serial No. 301,990. 7 Claims. (Cl. 85—2.4.)

1. An expansion anchorage device comprising a short tubular member consisting of a strip of sheet metal wound into a helix, said strip being bent longitudinally to stand the edges of the strip at an incline to the axis of the



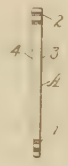
helix and whereby when the helix is longitudinally compressed the angles of such edges will be altered to increase the outside diameter of the helix.

1,419,980. ROCK-CUTTING MACHINE. FREDERIC J. PALMA, Denver, Colo., assignor to The Universal Coal Machine Company, Phoenix, Ariz., a Corporation of Arizona. Filed Apr. 6, 1918. Serial No. 227,065. 29 Claims. (Cl. 262—6.)



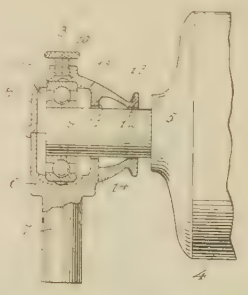
1. In a machine of the class described, the combination with a plurality of cylinders each having a tool piston mounted therein, of means comprising pulsating piston mechanism for producing reciprocation of said tool pistons by fluid pulsations, and a source of fluid under constant pressure common to all of said cylinders for returning said tool pistons after their forward strokes.

1,419,981. NAIL. JOSEPH H. POPE, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 11, 1918. Serial No. 211,349. 10 Claims. (Cl. 85—21.)



1. A nail having a smooth unbroken shank portion to prevent injury to the work into which it is driven and formed with a plurality of relatively shallow grooves extending across a side of the nail adjacent to its point end to effect a gradual deflection of the point of the nail as it is clinched.

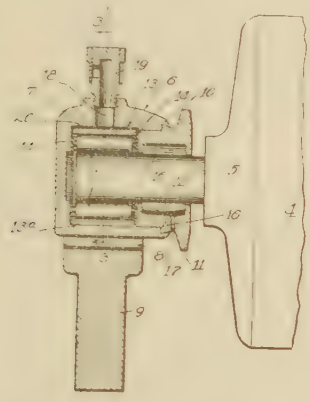
1,419,982. PAPER-ROLL MOUNTING. JOHN H. REEDY, Hamilton, Ohio. Filed Oct. 25, 1919. Serial No. 333,331. 3 Claims. (Cl. 92—44.)



1. A paper-roll mounting comprising, a roll having a projecting journal-piece, a ball-bearing having its inner

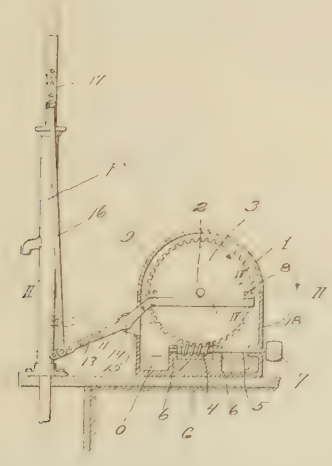
member fast with said roll, a support and cap enclosing and supporting the ball-bearing with its outer member held against rotation, the support having a recess at each side of the ball-bearing, and a removable plug closing an oil-hole communicating with said recesses, combined substantially as set forth.

1,419,983. PAPER-ROLL MOUNTING. JOHN H. REEDY, Hamilton, Ohio. Filed May 17, 1920. Serial No. 381,902. 6 Claims. (Cl. 64—24.)



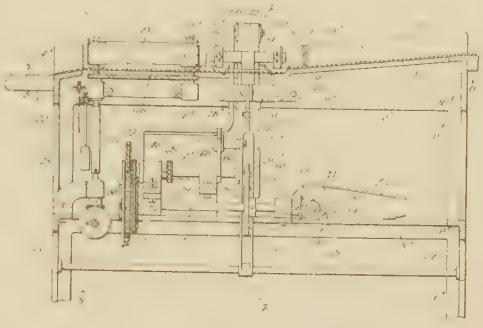
1. A mounting for paper-rolls, and the like, comprising a hollow body member, a roller bearing therein for receiving a journal, said bearing having a race ring, and a bushing secured in said body member to hold said bearing in position, said bushing having a recess for receiving a supply of lubricant and a drain hole for said recess.

1,419,984. PUMP JACK. WILLIAM C. REESE, Hayes Center, Nebr. Filed July 11, 1921. Serial No. 483,786. 3 Claims. (Cl. 74—14.)



1. A pump jack comprising a casing, a wheel journaled in said casing, a lever pivoted in said casing and adapted to have pivotal connection at one end with a pump and provided with a pair of grooves at its other end at opposite sides of said wheel, and a pair of pins carried by said wheel at opposite sides thereof, and adapted to alternately engage their respective grooves.

1,419,985. SAUSAGE-LINKING MACHINE. LOUIS REISFELD, Chicago, Ill., assignor of one-half to Fred Deutsch, Chicago, Ill. Filed Sept. 13, 1919. Serial No. 323,608. 19 Claims. (Cl. 17—6.)

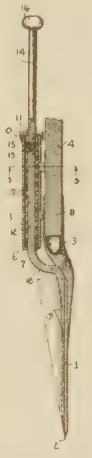


1. In a sausage linking machine, a container for a stuffed sausage casing, means for drawing said casing from said container and putting it under tension, and means interposed between said container and said drawing means for constricting said casing at two points.

1,419,986. CATALYZER AND METHOD OF PRODUCING THE SAME. WILLIAM D. RICHARDSON, Chicago, Ill., assignor to Swift & Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 9, 1920. Serial No. 364,391. 15 Claims. (Cl. 23—28.)

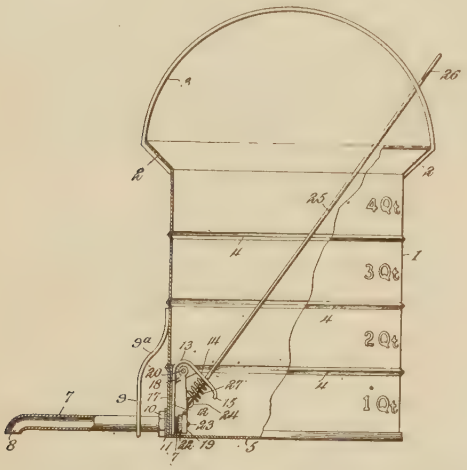
6. The process of forming a catalyzer by abrading a catalyzer metal in the presence of water.

1,419,987. SHOVEL CLEANER. AUGUSTUS MUTHART ROAT, Williamsport, Pa. Filed Aug. 13, 1921. Serial No. 492,173. 3 Claims. (Cl. 294—50.)



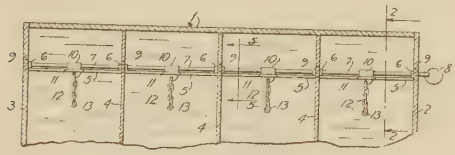
1. A shovel scraper comprising a tubular casing or barrel having means for attachment to the handle of a shovel above the shovel blade, a plunger rod projecting above and below the ends of the barrel, the lower end of the plunger rod being turned inwardly toward the shovel blade, a transversely disposed scraper blade carried thereby, said scraper being curved transversely to fit the shovel and extending from side to side thereof at the top, a shoulder carried by the plunger within the barrel, and a coiled spring surrounding the plunger between the said shoulder and the end of the barrel, whereby, when the said plunger is forced downwardly and the scraper is caused to traverse the shovel blade longitudinally, the same will be automatically returned upwardly by the spring.

1,419,988. OIL CAN. JOHN M. ROHRER, Orwigsburg, Pa. Filed Oct. 25, 1921. Serial No. 510,215. 2 Claims. (Cl. 221—15.)



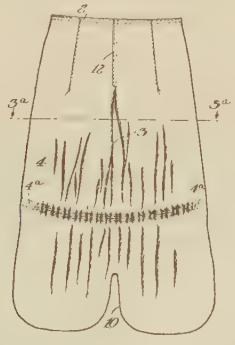
1. An oil can having an opening at one side near the bottom, a tubular spout having its inner end passed through the opening, means for securing the spout detachably in said opening, the inner end of the spout projecting beyond the inner wall of the can, a bracket detachably connected to the inner end of the spout, a valve plate pivoted to and carried by said bracket, a gasket at the lower end of the valve plate to seat itself on the inner end of the spout, and a spring-actuated rod connected to the valve plate and extending upwardly above the top of the can.

1,419,989. ANIMAL-RELEASING DEVICE. NELS P. ROSLUND, Macworth, Saskatchewan, Canada. Filed Dec. 9, 1920. Serial No. 429,580. 2 Claims. (Cl. 119—115.)



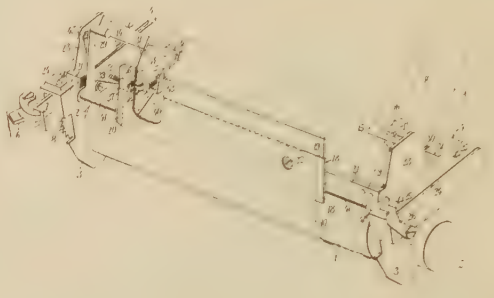
1. In an animal releasing device, a plurality of pivotally supported bearings, a sectional pull rod releasably supported in said bearings, a handle for said pull rod, tapered castings releasably carried by said pull rod, and snap hooks carried by said castings.

1,419,990. SKIRT. AGNES M. SMITH, Rochester, N. Y. Filed Nov. 20, 1920. Serial No. 425,331. 4 Claims. (Cl. 2—42.)



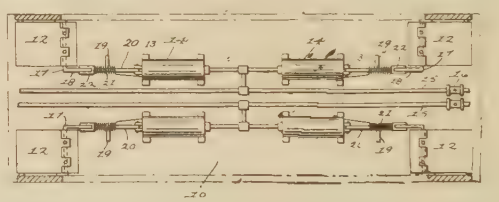
1. A skirt comprising a substantially straight portion extending vertically from top to bottom and a portion having pleats extending from the top downwardly toward the lower part of the skirt and there shirred, an elastic webbing secured at its ends only at the opposite sides of said shirred portion.

1,419,991. TYPEWRITING MACHINE. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed May 4, 1920. Serial No. 378,751. 27 Claims. (Cl. 197—127.)



1. In a typewriting machine, in combination, a revoluble platen, a rear paper-table over which superposed work-sheets may be fed to the platen, means to receive said work-sheets from the delivery side of the platen, a device to co-operate with the rear paper-table to hold one of said work-sheets near one of its side edges, so that a second work-sheet with its corresponding side edge positioned to clear said device may be drawn forward with reference to the work-sheet so held, and means for automatically arresting the second work-sheet when it has been advanced to a predetermined position.

1,419,992. EXTENSION STEPS. JOE SZCZUREK, Chicago Heights, Ill. Filed May 4, 1921. Serial No. 466,725. 3 Claims. (Cl. 105—430.)

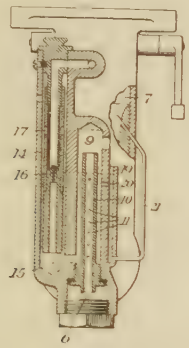


1. Operating means for the extension of the steps of passenger railway cars comprising in combination with air operated step covers, a toggle having its arms pivotally connected at its inner meeting ends, a spring for normally holding said arms in an angular position, and an operating lever adapted to engage one of said arms upon the operation of the step cover, operating means for opening said covers for bringing both arms of said toggle into alignment to extend the steps, said spring adapted to shorten said extension upon the disengagement of said operating lever from the arm of said toggle by drawing the arms thereof into the normal angular position.

1,419,993. CARBURETOR. RICHARD H. TAYLOR, Detroit, Mich., assignor to Societe du Carburateur Zenith, Lyon, France, a Corporation of France. Filed May 6, 1916. Serial No. 95,809. 3 Claims. (Cl. 261—41.)

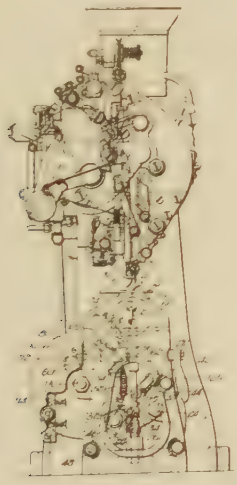
1. A carburetor having a constant level chamber, a carbureting passage, a throttle valve in said passage, a primary jet for feeding fuel to the carbureting passage below the throttle valve, means for feeding fuel from a constant level chamber to said jet, an atmospheric well, means to feed fuel to said well, a secondary jet communicating with

the atmospheric well and terminating adjacent the throttle, a second atmospheric well communicating with the first atmospheric well below the normal fuel level of the fuel in the constant level chamber, and above the fuel feed to the first mentioned atmospheric well and an auxiliary



suction fuel feed communicating with said second well and the carbureting passage below the throttle valve to momentarily supply fuel to the carbureting passage to form a rich mixture when the throttle is opened, substantially as described.

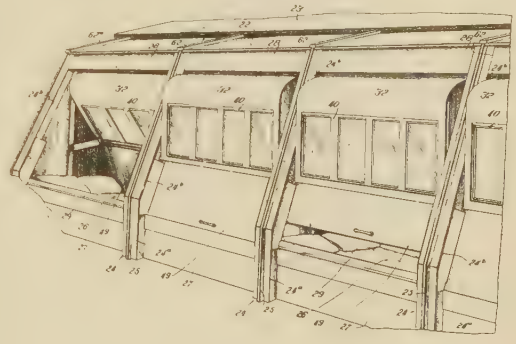
1,419,994. WAX-THREAD SEWING MACHINE. LAURENCE E. TOPHAM, Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 8, 1917. Serial No. 173,537. 6 Claims. (Cl. 112—38.)



1. A wax thread sewing machine having, in combination, a bobbin case, a rotary hook having a forwardly directed free end provided with a loop-taking beak and operating to pass a loop of needle thread about the bobbin case, a straight hook needle reciprocating in front of the free end of the hook and arranged to draw out a loop of needle thread the two sides of which are located at different distances from the plane of rotation of the beak of the hook, and a loop spreader operating from the forward side of the needle for engaging the side of the needle loop farther from the plane of rotation of the beak of the loop taker and deflecting it across the path of the beak of the loop taker.

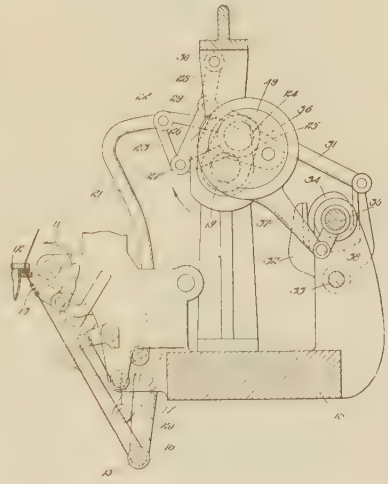
1,419,995. BUILDING CONSTRUCTION. HENRY C. TROST, El Paso, Tex. Filed Jan. 18, 1922. Serial No. 530,013. 11 Claims. (Cl. 20—1.)

1. In a building construction, a structure having one side open, a wall for said open side comprising a swinging section and a slidable section, said slidable section being adapted to be slid upward onto and carried by said swinging section, and locking means whereby the swinging sec-



tion is locked in its outwardly and inwardly swung positions, said locking means being automatically moved into and out of locking position by said sliding section.

1,419,996. TAKE-UP MOTION. FÉLIX EMILE VALOIS, Haverhill, Mass., assignor to Hamel Shoe Machinery Company, Lynn, Mass., a Corporation of Massachusetts. Filed Aug. 1, 1918. Serial No. 247,749. 9 Claims. (Cl. 112—57.)

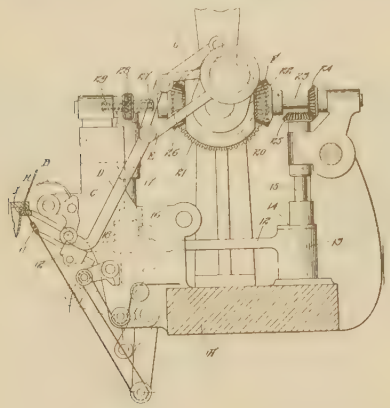


1. In combination with a working instrumentality of a sewing machine, a crank, a connecting rod connected to said crank for actuation thereby, a connection joining the connecting rod and the working instrumentality, a controlling link one end of which is connected to the connecting rod, and a cam moving in time with the machine, a cam follower operated by said cam and acting on the said controlling link to vary its position in time with the machine.

1,419,997. LOOPER MECHANISM FOR SHOE-SEWING MACHINES. FÉLIX EMILE VALOIS, Haverhill, Mass., assignor to Hamel Shoe Machinery Company, Lynn, Mass., a Corporation of Massachusetts. Filed Aug. 1, 1918. Serial No. 247,750. 15 Claims. (Cl. 112—35.)

1. A sewing machine having, in combination, a hooked

needle, a take-up, a looper at the same side of the work as the take-up, and eccentric means for moving said looper

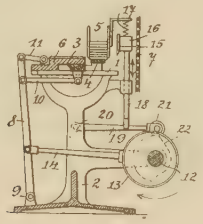


in a closed path having a reentrant loop, substantially as and for the purpose specified.

1,419,998. SHOE, PROCESS AND MAKING SAME, AND SHOE-PART FASTENER. FÉLIX EMILE VALOIS, Bridgeport, Conn., assignor to Hamel Shoe Machinery Company, a Corporation of Massachusetts. Filed July 14, 1919. Serial No. 310,719. 3 Claims. (Cl. 36—24.)

3. A slug or fastener for connecting shoe parts, said slug consisting of celluloid.

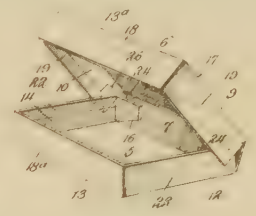
1,419,999. MATCHMAKING MACHINE. VICTOR VON CZERWENY, Deutschlandsberg, and EDUARD BLÜMEL, St. Polten, Austria. Filed Jan. 24, 1919. Serial No. 272,976. 5 Claims. (Cl. 144—64.)



1. In match making machine, a carrier, a setting-head and match stick support both reciprocable towards and away from the carrier, and means to cause the setting-head to withdraw horizontally from the support near the beginning of the return movement of the latter.

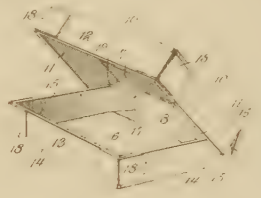
1,420,000. PASTEBOARD BOX AND WRAPPER. HERBERT H. WAGNER, Rochester, N. Y. Filed Oct. 23, 1920. Serial No. 418,881. 6 Claims. (Cl. 229—33.)

1. A wrapper for one-piece boxes of the type embodying a body portion, a cover portion and a hinge portion, the body and cover portions having side and end flanges with the cover portion foldable over the body portion, and the side flanges of the body portion each provided with an inwardly bent tab forming a backing for the hinge portion of the body, said wrapper being formed of a single sheet of paper cut to provide side flaps and end flaps to cover the body portion, cover portion, and hinge portion of the box, said sheet having its side flaps cut in-



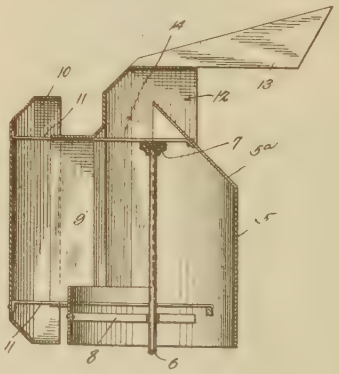
wardly intermediate the ends of the box to provide tabs for the side flanges of the cover portion of the box and tabs for the hinge portion of the box, said sheet also covering the outside of said bent tabs.

1,420,001. FOLDING PASTEBOARD BOX. JOHN WAGNER, deceased, late of Rochester, N. Y., by Augusta H. Wagner and Herbert H. Wagner, administrators, Rochester, N. Y. Filed Oct. 7, 1920. Serial No. 415,413. 5 Claims. (Cl. 229—16.)



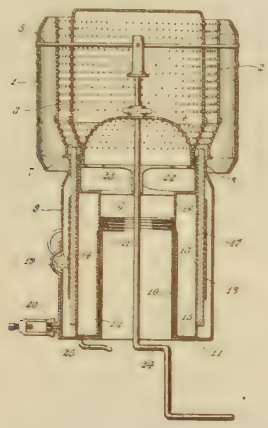
1. A blank for making a one-piece folding pasteboard box comprising a cover section, a receptacle section, and a hinge section joining the other two sections, all three sections being substantially rectangular; the cover and receptacle sections both having integral flanges on three sides thereof separated therefrom by score lines, the score lines extending longitudinally of the blank converging slightly and uniformly from the cover end of the blank to the receptacle end whereby the cover has sufficient width when the box is folded to enclose the receptacle.

1,420,002. VENTILATOR. WILLIAM S. WEBSTER and GEORGE O. WEBSTER, Chicago, Ill. Filed July 15, 1921. Serial No. 485,077. 2 Claims. (Cl. 98—3.)



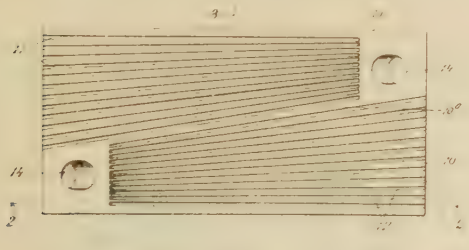
1. A ventilator cowl comprising a vertically positioned and rotatably supported drum having a bottom inlet and a top outlet, and also provided with a front outlet flue, a wind deflector and shield over the outer end of the flue, and a hood over the top outlet, said hood having its portion which faces the shield closed.

1,420,003. LIQUID-FUEL BURNER. JORDAN WEGMAN, Creve Couer, Mo. Filed May 2, 1921. Serial No. 466,141. 13 Claims. (Cl. 158—88.)



9. In a liquid fuel burner having a wick, an enlarged fuel reservoir into which the wick is adapted to extend, said reservoir having an inner and an outer wall, one of said walls terminating below the other, a filler for said reservoir adapted to reduce the fuel capacity thereof, and a connection at the terminus of said lower wall for removably mounting said filler thereon.

1,420,004. HOLDER FOR TALKING-MACHINE RECORDS. HANS WEIDE, Brooklyn, N. Y. Filed July 5, 1921. Serial No. 482,482. 4 Claims. (Cl. 211—16.)



2. A talking machine record holder comprising a block having two series of grooves therein, each series terminating short of one end of the block and completely through the other end, the respective grooves of the two series diverging away from one another toward the last mentioned end.

1,420,005. KEY BOLT. ALONZO H. WESTON, Buffalo, and JOHN ZILLIOX, Orchard Park, N. Y., assignors, by mesne assignments, to The Diaphone Signal Company, Limited, Toronto, Ontario, Canada. Filed Nov. 9, 1920. Serial No. 422,906. 4 Claims. (Cl. 10—27.)

1. A process of forming a slotted key bolt which consists in forming a half round bar of reduced width at its middle for a distance equal to twice the desired length of the slot, bending said bar on itself at the middle and displacing the metal to offset the flat faces of the middle portion to form the slot.

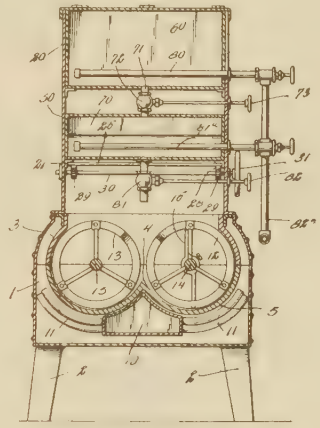
1,420,006. INTERNAL-COMBUSTION-ENGINE FUEL. MILTON C. WHITAKER, New York, N. Y., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Nov. 12, 1919. Serial No. 337,395. 5 Claims. (Cl. 44—9.)

1. A fuel comprising a light hydrocarbon, an alcohol, a diethyl ketone, and an ester.

1,420,007. FUEL FOR INTERNAL-COMBUSTION ENGINES. MILTON C. WHITAKER, New York, N. Y., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Nov. 12, 1919. Serial No. 337,397. 6 Claims. (Cl. 44—9.)

5. A fuel comprising from 35% to 50% of an alcohol, from 25% to 35% of an aromatic hydrocarbon, and from 20% to 40% of an ester.

1,420,008. APPARATUS FOR PREPARING STOCK FOOD. HENRY S. WIKEL and MARTIN F. THATCHER, York, Pa. Filed Sept. 25, 1920. Serial No. 412,691. 6 Claims. (Cl. 99—2.)



1. A mixing apparatus comprising a mixing chamber having a longitudinal central partition, longitudinal rotary agitators and conveyors disposed in the sub-chambers at opposite sides of the partition, a paddle rotatable with one agitator and conveyor adjacent to one end of the chamber, and a paddle rotatable with the other agitator and conveyor adjacent to the opposite end of the conveyor.

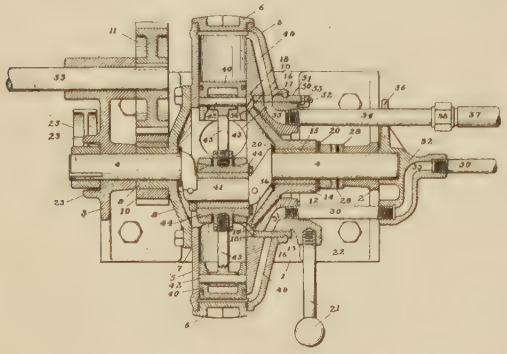
6. A stock-food preparing apparatus comprising a mixing chamber, mixing means therein, a steam container and heater under the mixing chamber, a molasses, container above the mixing chamber, means to control communication between the molasses container and the mixing chamber, and a valved conduit between the steam heating means below the mixing chamber and the molasses container and extending into the molasses container and having minute apertures for the direct discharge of steam into the molasses.

1,420,009. ROTARY ENGINE. FREDERICK D. WILSON, Moline, Ill. Filed Nov. 15, 1917, Serial No. 202,181. Renewed May 9, 1919. Serial No. 295,973. 23 Claims. (Cl. 121—58.)

1. In a rotary engine, the combination of a frame, a crank shaft mounted to rock in bearings on the frame and normally held stationary while the engine is rotating in one direction, a revoluble casing mounted on the crank shaft, a series of cylinders secured on the casing, pistons in the cylinders and actuated by revolving around the crank shaft, a ring valve, a manually controlled throttle valve, and means to automatically shift the crank shaft between fixed points when the throttle valve is operated.

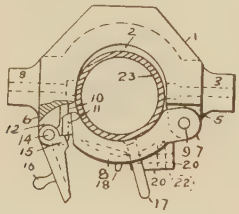
21. In a rotary engine, the combination of a frame, a crank shaft mounted to rock bearings on the frame and

held stationary while the engine is rotating, a revoluble casing mounted to revolve around the crank shaft, a series of cylinders secured to the casing, pistons in the cylinders and actuated by revolving around the crank



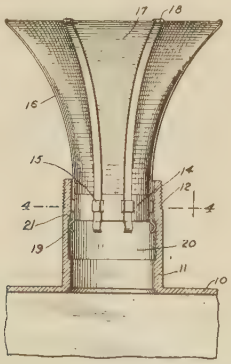
shaft, a ring valve provided with ports, a manually controlled throttle valve having a groove in its peripheral face, said groove co-operating with the ring valve ports in controlling the engine.

1,420,010. ELEVATOR. CLYDE S. WRIGHT, Toledo, Ohio, assignor to The National Supply Company, Toledo, Ohio, a Corporation of Ohio. Filed June 1, 1921. Serial No. 474,176. 5 Claims. (Cl. 294—90.)



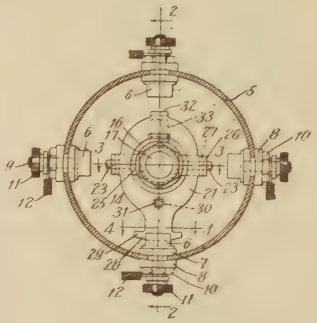
1. In an elevator, a body member having an open lateral slot to receive an object, a door hinged at one end to the body member to close the slot, a lever also pivoted to the body member for forcing the door to its closed position and means for locking the lever in its closed position.

1,420,011. RADIATOR FUNNEL. WILLIAM EDGAR ABBOTT, Bend, Oreg., assignor, by direct and mesne assignments, to Abbott Incorporated, Bend, Oreg., a Corporation of Oregon. Filed Apr. 16, 1919, Serial No. 290,477. Renewed Sept. 22, 1921. Serial No. 502,591. 4 Claims. (Cl. 226—38.)



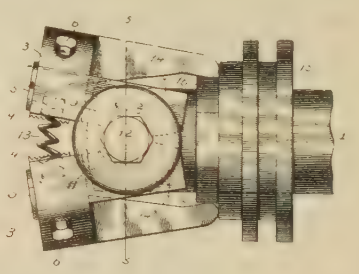
3. The herein described collapsible radiator funnel comprising, in combination, a rigid hollow base, a plurality of resilient ribs secured to the base and extending upward therefrom, said ribs being outwardly bent and having a normal tendency to flare outward away from one another at their upper ends, a collapsible flexible funnel body attached to said ribs and supported thereby, said body being adapted to collapse with the ribs when the funnel is forced downward into the radiator filler, and means extending beneath the funnel base and adapted to cooperate with said filler to limit the upward movement of the funnel, substantially as set forth.

1,420,012. TIMER. JOHN A. ANDERSON, Boston, Mass. Filed Mar. 13, 1920. Serial No. 365,406. 11 Claims. (Cl. 200—24.)



1. A device of the character described having, in combination, a casing, a plurality of stationary contact members attached to said casing and insulated therefrom, a rotatable driving member, and a rotatable contact member pivotally attached to said rotatable driving member upon opposite sides of the axis thereof and adapted to successively engage said stationary contact members and complete an electric circuit therethrough.

1,420,013. SCREW-CUTTING MACHINE. JAMES A. BECHER, Chicago, Ill. Filed June 24, 1919. Serial No. 306,351. 3 Claims. (Cl. 10—98.)

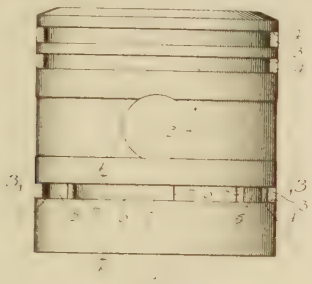


3. In a screw cutting machine, the combination with a member having diametrically opposite trunnions, of two jaws, each having two arms providing half-bearings on said trunnions, collars encircling parts on said arms, disks engaging said collars, screws passing through said disks and entering the trunnions, and cutters carried by said jaws.

1,420,014. PISTON FOR INTERNAL-COMBUSTION ENGINES. FRANK O. BENOIST, Phoenix, Ariz., assignor to Arthur Rich Thomas, Phoenix, Ariz. Filed May 23, 1921. Serial No. 471,852. 8 Claims. (Cl. 74—108.)

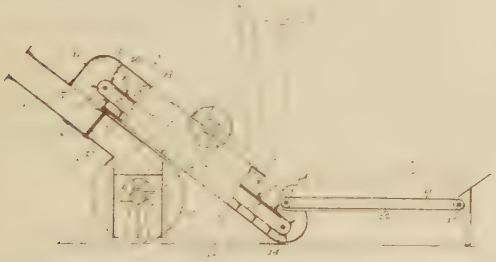
1. A piston for an internal combustion engine provided with a groove for a piston ring and a piston ring confined in said groove, said piston being also provided with holes formed through the wall of the piston at the bottom of said piston ring groove, leaving portions of the bottom side of said groove between adjacent holes, the

length of said holes being proportioned to minimize leakage past said piston ring, and the length of the portions of the bottom of said groove between said holes



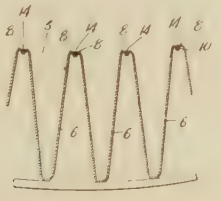
being proportioned to permit enough leaking past said ring to properly lubricate the wearing surfaces of the piston and cylinder, substantially as described.

1,420,015. PNEUMATIC CONVEYER APPARATUS. GEORGE BERNERT, Milwaukee, Wis., assignor to Bernert Manufacturing Company, Milwaukee, Wis., a Corporation of South Dakota. Filed May 20, 1920. Serial No. 382,746. 6 Claims. (Cl. 302—36.)



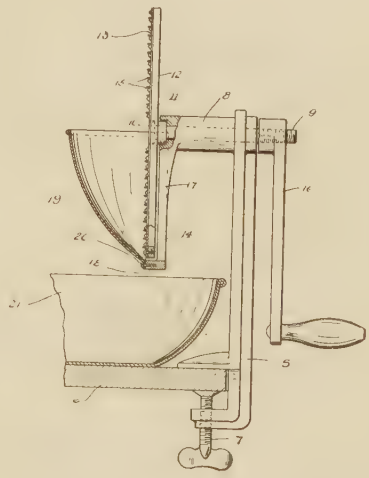
1. A pneumatic conveying apparatus including a conveying air duct, a feeding conveyer casing communicating at one end portion with said air duct, rollers in the end portions of said casing having their axes disposed below the center of the casing, a conveyer belt trained about said rollers and conveying flights on said belt, the flights on the upper stretch of the belt being spaced from the top of the casing to provide a conveying chamber, and a valve in said casing yieldable upon engagement therewith of material to be conveyed.

1,420,016. WELDED STRUCTURE AND METHOD OF FORMING SAME. ROBERT V. BINGAY, Pittsburgh, Pa., assignor to Pittsburgh Transformer Company, a Corporation of Pennsylvania. Filed Mar. 26, 1921. Serial No. 456,003. 2 Claims. (Cl. 113—112.)



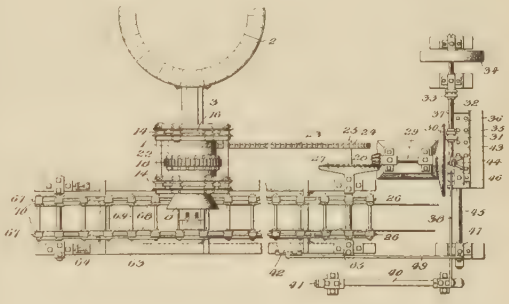
1. The method of welding the ends of metal sheets comprising bending the sheets so that both meeting ends in assembled position will extend in the same general direction, bending the meeting edge of each end around and back through an angle greater than a right angle, assembling said sheet ends side by side and extending in the same general direction and with the bent edges forming a re-entrant V-shaped groove between them, and forming a weld in said groove.

1,420,017. GRATER. KARL L. BONIN, Chicago, Ill. Filed Feb. 10, 1922. Serial No. 535,514. 4 Claims. (Cl. 146—9.)



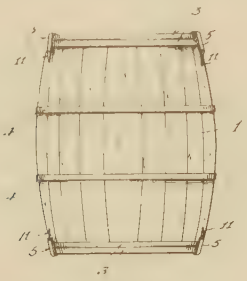
1. A grater including a bracket adapted to clampingly engage the top edge of a table top or the like, a bearing carried by said bracket, a shaft journalled in said bearing, there being a rectangularly shaped head on one end of said shaft; a disc carried by said shaft, there being a rectangularly shaped recess formed in said disc for the reception of said head, grating elements carried by said shaft, and a receptacle carried by said bearing for the reception of matter to be grated, substantially as described.

1,420,018. SLAG-BRICK MACHINE. CHARLES T. BRAY, Salt Lake City, Utah. Filed Aug. 5, 1920. Serial No. 401,316. 23 Claims. (Cl. 49—39.)



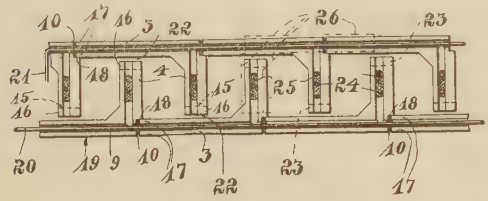
16. A slag brick machine including a horizontal rotary distributor provided at one end with an opening to receive slag from a furnace and having at the other end a plurality of circumferentially spaced outlets adapted to be successively brought to the bottom of the distributor for discharging the slag, an endless conveyor arranged to carry successively a plurality of molds beneath the discharging outlets, gearing connected with the conveyor and the rotary distributor, a friction disk connected with the said gearing for actuating the same, a drive shaft having a flexible coupling, a friction wheel mounted on the drive shaft and arranged to engage the friction disk and adapted to be carried into and out of engagement with the same by the flexing of the drive shaft, means for adjusting the friction wheel, a rock shaft having an arm provided with a bearing receiving the drive shaft, and means for partially rotating the rock shaft to engage the friction wheel and to carry it out of such engagement and to vary the frictional engagement.

1,420,019. BARREL-HEAD-SECURING DEVICE. JOSEPH CAPPEL, Peoria, Ill. Filed May 2, 1921. Serial No. 466,162. 9 Claims. (Cl. 217—89.)



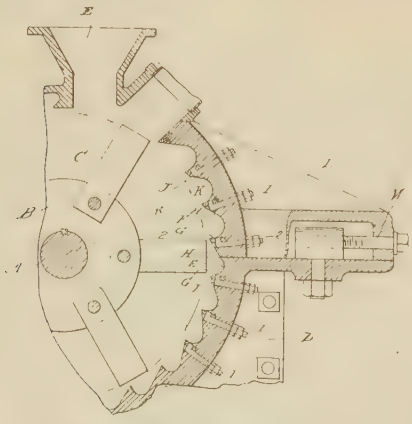
1. In a barrel-head securing device, a toggle including two portions, one of which is arranged to engage the said head, the other portion adapted to engage a projecting part of the barrel structure adapted to secure said barrel head structure in fixed relation.

1,420,020. TILE CONSTRUCTION. EUGENE CERIAT, Los Angeles, Calif. Filed Aug. 2, 1921. Serial No. 489,213. 3 Claims. (Cl. 72—30.)



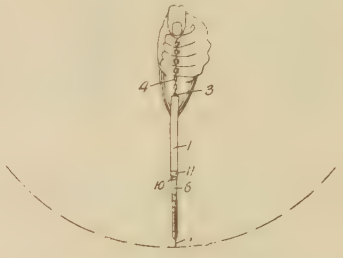
1. In a tile structure, units having L-shaped cross-section, the longer of the shanks forming the outer and inner surface of the structure, the shorter of the shanks forming the engaging members between the surfaces, the longer shanks having means to engage for forming flush outside surfaces, the shorter shanks having cut-out portions to form horizontal passages in each of the layers of the structure, the shorter shanks being also disposed in spaced relation to one another to form vertical passages for ventilation, re-enforcing rods embedded between the several layers in the structure, and other re-enforcing rods disposed through the shorter shanks for connecting and re-enforcing the structure vertically.

1,420,021. CRUSHER AND PULVERIZER. WILLIAM M. DAVIDSON, St. Louis, Mo., assignor to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 3, 1921. Serial No. 512,487. 2 Claims. (Cl. 146—19.)



1. In a grinding mill, a wall having a curved inner face provided with recesses therein, in combination with inset pieces, each having an opening therein and reversible cutting edges adapted to form an extension of the recess walls, and adjusting means for said inset pieces, each having one end thereof engaging in said opening, and the other end extending beyond said wall.

1,420,022. THERMOMETER. NOEL DECARIE, Montreal, Quebec, Canada. Filed Oct. 23, 1920. Serial No. 419,155. 3 Claims. (Cl. 73—52.)

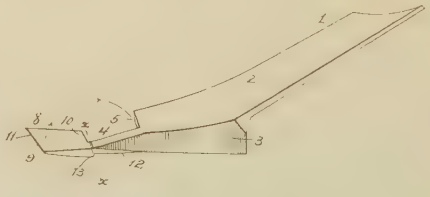


1. In combination a casing, a thermometer comprising a capillary tube having a bulbed end adapted to contain a fluid; a cap secured on the end of said tube opposite the bulbed end, said cap having a threaded inner portion adapted to engage a corresponding threaded portion in said casing; means on said cap to secure said thermometer to said casing so as to extend outwardly therefrom; and means whereby said thermometer can be given a gyratory movement.

1,420,023. DETACHABLE ARMREST FOR AUTOMOBILES. THOMAS H. DECKER, Chicago, Ill. Filed May 20, 1921. Serial No. 471,113. 2 Claims. (Cl. 296—1.)

1. A device of the character described comprising a U-shaped wire having its ends flattened and projected at right angles to the plane of the U shaped portion, said ends being fashioned into hooks, cross wires carried by the U-shaped portion of said first named wire, padding carried by said cross wires, and a cover disposed around said padding.

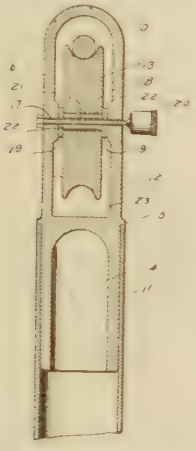
1,420,024. PLOWPOINT. WILLIAM O. DOUGLASS, Broken Arrow, Okla. Filed Apr. 14, 1921. Serial No. 461,222. 2 Claims. (Cl. 97—22.)



2. The combination with a plow share comprising a blade member, and a land side member having a forwardly

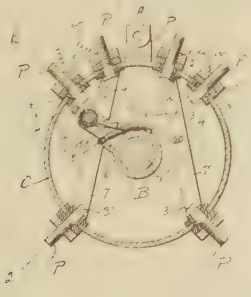
tapering tongue, of a point comprising a body portion and a shank, said body portion tapering from its juncture with the shank and said shank being in line with one edge of the body portion and offset with respect to the opposite edge thereof, said body portion of the point overlying said tongue and said shank underlying said tongue, said point being welded to the share.

1,420,025. PULL-ROD BEARING. FORREST B. DUNLAP, Tulsa, Okla., assignor of one-half to Harold L. Sullivan, Tulsa, Okla. Filed Apr. 22, 1920. Serial No. 375,802. 3 Claims. (Cl. 64—26.)



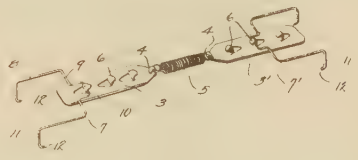
1. A bearing for a well pump pull rod comprising a roller, a shaft to support the roller, a housing for the roller having spaced side members, said shaft being mounted in said side members, and means integral with said side members substantially closing the sides of the housing intermediate the side members and terminating relatively close to the periphery of the roller to form a reservoir to lubricate said periphery.

1,420,026. COMMUTATOR. OLOF A. ECKRE, Kindred, N. Dak. Filed Mar. 25, 1920. Serial No. 368,574. 4 Claims. (Cl. 200—24.)



1. A commutator comprising a casing, a stationary contact extending within the casing, a cam shaft extending within the casing, a rocker contact member carried by the shaft, the stationary contact within the casing intersecting the path of travel of the rocker contact member, said rocker contact member being substantially U-shaped in form, a coil spring arranged within the U-shaped rocker contact member for constantly urging the same in one direction, and yieldable means for limiting said movement.

1,420,027. CLAMP FOR IRONING-BOARD CLOTHS. BERTHA EHRMAN, SARA JOHANSON, CLAUS M. JOHANSON, and PALMER M. PETERSON, Tacoma, Wash. Filed Nov. 25, 1921. Serial No. 517,609. 4 Claims. (Cl. 24—87.)

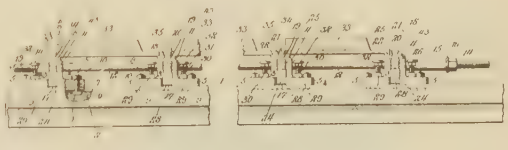


1. A cloth holding clamp for ironing boards comprising, a tensioning spring, plates fixed to the opposite ends of said spring and hooks, for engaging the opposite edges of a board, secured detachably to said plates.

1,420,028. PROCESS FOR THE PRODUCTION OF NON-INFLAMMABLE CELLULOID. ARTHUR EICHENGRÜN, Berlin, Germany, assignor, by mesne assignments, to American Cellone Company (Inc.), New York, N. Y., a Corporation of New York. Filed Nov. 23, 1910, Serial No. 593,773. Renewed Aug. 31, 1921. Serial No. 497,240½. 3 Claims. (Cl. 106—40.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

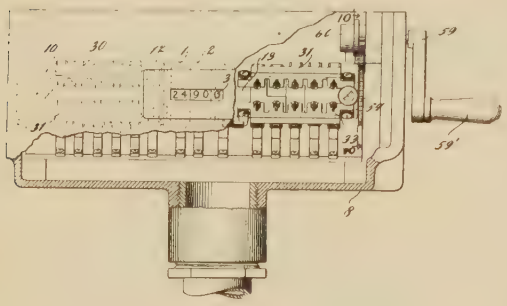
1. A process for the production of hard celluloid material from acetyl cellulose consisting in mixing acetyl cellulose together with a camphor substitute and a volatile solvent for the acetyl cellulose, said volatile solvent being used in quantities insufficient to effect complete solution of the acetyl cellulose and in mechanically working or kneading said mixture until a composition results which on evaporation of the volatile solvent solidifies to a hard celluloid like mass.

1,420,029. CHUCK AND TOOL HOLDER. TIMOTHY C. FOLEY, Renovo, Pa. Filed Sept. 16, 1920. Serial No. 410,659. 8 Claims. (Cl. 90—59.)



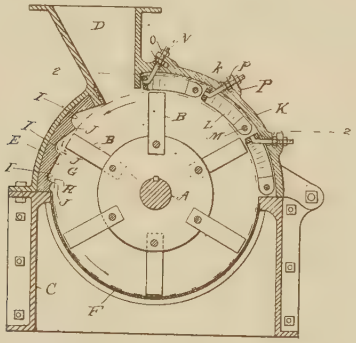
1. The combination with a planer table of a planer chuck comprising a plurality of blocks adjustable on the table and each having means for securing it on said table in adjusted position, a clamp rod common to and traversing all the blocks, and work engaging jaws individual to the blocks and provided with serrated or roughened engaging faces for holding and alining work between the blocks.

1,420,030. SIGNAL SYSTEM. HANNIBAL C. FORD, New York, N. Y., assignor to Ford Instrument Company, Inc., a Corporation of New York. Filed Oct. 10, 1917. Serial No. 195,692. 14 Claims. (Cl. 177—337.)



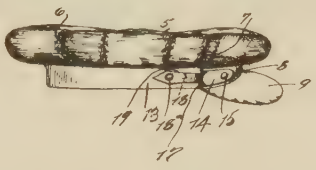
1. In a signal system, a transmitter comprising a plurality of switches, a rotary cam shaft for actuating said switches, and a counter-wheel mounted on said cam shaft.

1,420,031. CRUSHER AND PULVERIZER. ALEXANDER GILLESPIE, Pittsfield, Ill., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo., a Corporation of Missouri. Filed Oct. 28, 1921. Serial No. 511,183. 9 Claims. (Cl. 83—11.)



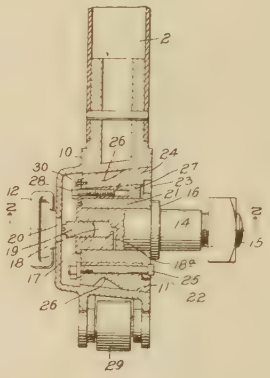
1. In a machine of the character described, the combination of pivoted hammers with a breaker plate, said breaker plate being formed with a cove having a leading surface tangential the path of the hammers and a surface radial the path of the hammers, said surfaces being connected by a concave surface and said radial surface terminating in a cutting edge closely adjacent the path of the hammers to produce a shearing effect therewith.

1,420,032. CAP. SELIG GLIEDMAN, New York, N. Y. Filed Oct. 27, 1921. Serial No. 510,807. 1 Claim. (Cl. 2—166.)



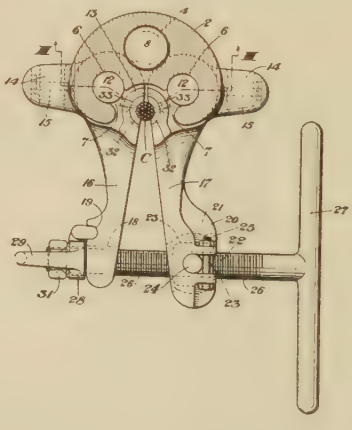
In a cap, a body member having a portion thereof wider than the remainder, to provide an extension, a vizor secured to the said extension, a band secured to the edge of the narrower portion of the body from a point adjacent one end of the vizor to a point adjacent the other end thereof to provide a gap at each end of the vizor between said vizor and said band, a strap secured to each end of the band and having a slit therein intermediate the ends thereof, the slit in the straps being located opposite the adjacent gap between the vizor and band, a supplemental strap carried by the extension at each end thereof and arranged to be passed through the slit in the adjacent strap, fastening means carried by the band to engage the supplemental strap, and fastening means carried by the extension to engage the straps carried by the band.

1,420,033. PITMAN CONNECTION FOR OIL-WELL APPARATUS. EDGAR E. GREVE, Bellevue, Pa., assignor to Oil Well Supply Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 18, 1918. Serial No. 258,725. 9 Claims. (Cl. 287—93.)



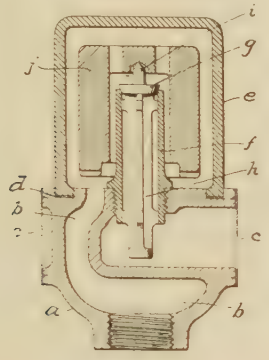
1. The combination with a pitman and a crank, of means for detachably connecting the pitman and crank including a wrist-pin structure comprising a wrist-pin proper, an inner member, an annular outer member having an outer peripheral configuration and provided with a peripheral groove, said members being concentrically disposed, and means for securing the members together, said pitman having means thereon for engaging in said groove for detachably holding the pitman in connection with the crank.

1,420,034. ROPE CLAMP. EDGAR E. GREVE, Bellevue, Pa. Filed Feb. 26, 1920. Serial No. 361,395. 8 Claims. (Cl. 24—135.)



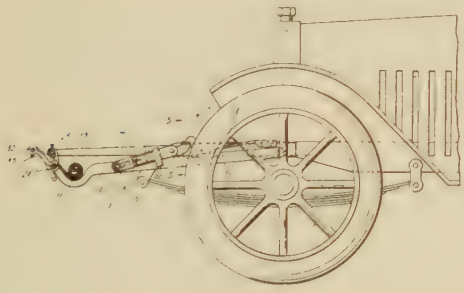
1. In a rope clamp, a skeleton body including vertically spaced apart apertured members and means connecting said members, opposing jaw members positioned between the body members each including an elongated body portion, longitudinally extending means carried by said jaws and projecting into the body members providing pivots for the jaws, arms carried by the jaws, and cooperating jaw adjusting means carried by the arms.

1,420,035. VACUUM-REGULATING APPARATUS. SELDEN H. HALL, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 23, 1920. Serial No. 353,459. 3 Claims. (Cl. 251—147.)



1. A sensitive vacuum controlling valve for milking machines comprising a casing having a chamber arranged to be connected to a pipe in which it is desired to maintain a partial vacuum, a second chamber in communication with the atmosphere, a tubular guide communicating with both chambers, a valve for closing communication through said tubular guide between the vacuum chamber and atmosphere, a stem on said valve, guiding projections on the stem for engaging the tubular guide, and a weight pivotally supported centrally of the valve stem and having its center of gravity below the valve.

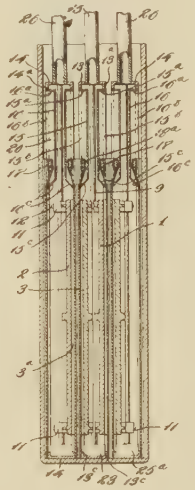
1,420,036. SAFETY FENDER FOR AUTOMOBILES. WILLIAM HANSEN, HANS C. HANSEN, and CHARLES BEARBY, Chicago, Ill. Filed Sept. 24, 1921. Serial No. 502,903. 20 Claims. (Cl. 293—41.)



1. An automobile fender comprising hinged frames; means operatively connecting said frames and forming a toggle; and latching means on said connecting means for automatically locking said toggle in extended position.

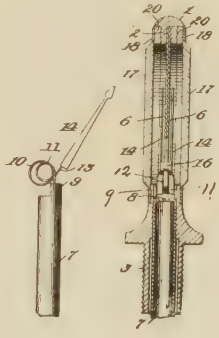
1,420,037. ELECTROLYTIC CELL. JOHN HARRIS, Lakewood, Ohio, assignor to Carbo-Oxygen Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Aug. 4, 1919. Serial No. 315,117. 16 Claims. (Cl. 204—5.)

1. In an electrolytic cell, the combination of a pair of electrode plates arranged back to back and each having in its outer face a plurality of vertical V-shaped ribs, a collecting chamber above said plates, said chamber having the bottoms of its side walls deflected downwardly and outwardly with the lower ends thereof in the planes of the said ribs of said plates respectively, a diaphragm extending across the ribs of each of said plates and across the lower edges of the corresponding chamber walls, an electrode plate cooperating with each of the first mentioned plates and each having ribs in a face thereof presented toward such first mentioned plates, a collecting chamber for each of the last two plates and each having



a side wall having its bottom deflected downwardly and inwardly towards the outwardly deflected plate of the first mentioned collecting chamber adjacent thereto, and a diaphragm for each of the last two plates extending across the ribs thereof and across the deflected lower end of the wall of its collecting chamber.

1,420,038. METALLIC RADIATOR THERMOMETER. RICHARD G. HEBROCK, Irvington, N. J. Filed Aug. 22, 1921. Serial No. 494,288. 8 Claims. (Cl. 73—52.)

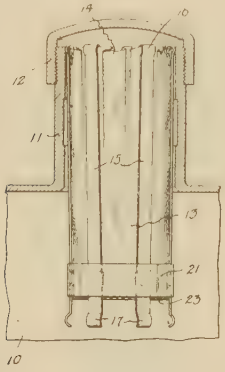


1. A metallic radiator thermometer comprising a casing provided with a tubular depending attaching nipple, and having a two faced graduated dial, a thermostatic spring secured at one end in the casing and provided at its free end with a double pointer secured at the base to the free end of the spring with its two members respectively extending over opposite faces of the dial.

1,420,039. RADIATOR FUNNEL. GARRY A. HORSTKOTTE, Bend, Oreg., assignor to Abbott, Incorporated, Bend, Oreg., a Corporation of Oregon. Filed Nov. 10, 1921. Serial No. 514,305. 7 Claims. (Cl. 226—38.)

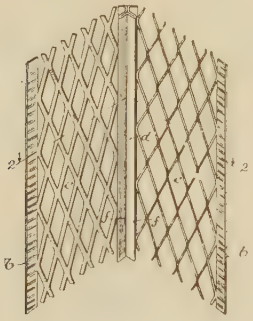
1. In a funnel, the combination with a bell shaped flexible body and a series of resilient stays to which the upper edge of the body is secured, of holding means for

the lower portion of the stays comprising a pair of annular members one within the other, one of the annular



members having holes therethrough while the stays have projections extending into said holes and held therein by the other annular member.

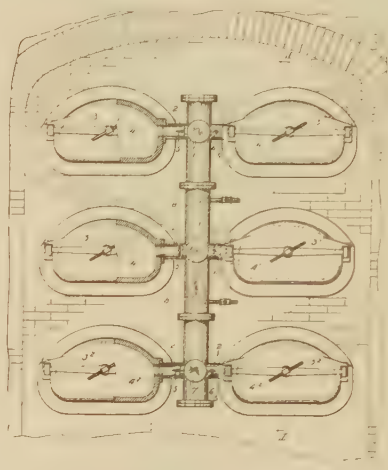
1,420,040. CORNER STRIP FOR PLASTERED WALLS. EDMUND H. JONES, Milwaukee, Wis., assignor to Milwaukee Corrugating Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Jan. 20, 1919. Serial No. 272,136. 1 Claim. (Cl. 72—121.)



A corner strip for plastered walls, consisting of sheet metal and formed integrally with an inwardly projecting expansible division fold and a continuous comparatively inflexible corner gage bead and on opposite sides of the fold with comparatively flexible slitted and expanded attachment and plaster bonding wings at an angle to each other, the bead consisting of inwardly diverging two-ply folds parallel with and overhanging the wings and forming therewith recesses to receive and confine adjoining edges of plaster coatings.

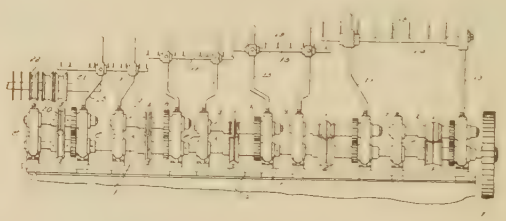
1,420,041. METHOD OF AND APPARATUS FOR MANUFACTURING GAS. ALBERT F. KERSTING, Spring Hill, Ala., assignor of one-half to Lazenby C. Hamlink, Cleveland, Ohio. Filed May 2, 1919. Serial No. 294,220. 8 Claims. (Cl. 48—210.)

1. In a process of manufacturing coal gas, the steps which comprise, charging in sequence, with coal, a plurality of retorts; initially establishing communication from each freshly charged retort through a second retort containing more completely carbonized fuel to a take off conduit; and subsequently disestablishing the communi-



cation between said retorts and delivering gas direct from said first retort to a take off conduit.

1,420,042. MACHINE AND METHOD FOR FORMING AND BENDING TUBES. FRANK KRITZ, Detroit, Mich. Filed Dec. 11, 1920. Serial No. 429,914. 18 Claims. (Cl. 153—54.)



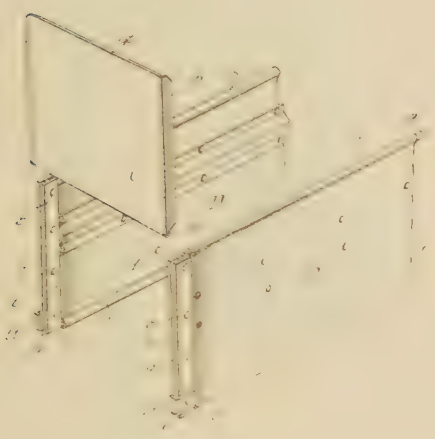
1. In a machine for forming and shaping metal tube or moulding, the combination of a plurality of sets of section-shaping rolls, and means operating in conjunction with each set and coincidently therewith for bending the said tube or moulding longitudinally into coils of progressively smaller diameter after each pass.

11. The method of shaping and bending metal tubing or moulding, which comprises the moving of a strip of metal longitudinally and coincidently subjecting the same to stresses calculated to fashion its cross section and stresses calculated to fashion its longitudinal run into a coil of progressively reduced diameter as the strip meets successive stresses.

1,420,043. CAMP STOVE. VINCENT LASBURY, Griggsville, Ill. Filed Feb. 5, 1921. Serial No. 442,867. 6 Claims. (Cl. 126—9.)

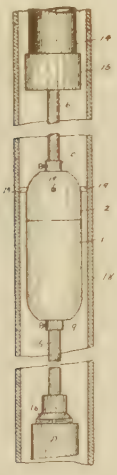
1. A knock-down, sheet metal camp stove comprising two side members, two end members, the height of the latter being equal to the transverse dimension or width of the former, complemental means on the end and side members for engaging said members to form a rectangular shaped stove open at its top and bottom, means on the side members for locking the lower margins of the end members in position with respect to the lower part of the

side members, a removable top provided with a downwardly projecting marginal flange adapted to embrace the



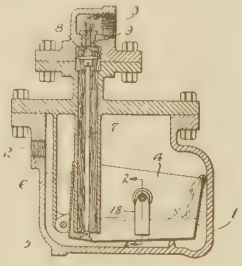
top margins of the side and end members and securely hold the entire structure in operative position.

1,420,044. DEVICE FOR UNSCREWING AND DRAWING PIPES. GUY V. LEWIS, Houston, Tex. Filed Sept. 27, 1921. Serial No. 503,691. 2 Claims. (Cl. 255—35.)



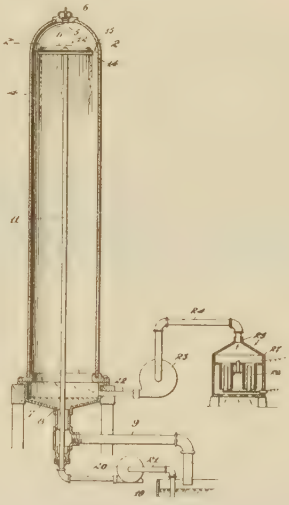
1. A device of the character described, including a casing, adapted to be let down into a well, relatively rotatable members operating in bearings therein, bevel gear wheels fixed to the adjacent ends of said members, rotatable pinions anchored to the casing, and interposed between and in mesh with said gear wheels, and means for fixing the casing against rotation in the well

1,420,045. FLUID TRAP. JOHN P. LIPPERT, East Cleveland, Ohio. Filed Jan. 12, 1922. Serial No. 528,663. 5 Claims. (Cl. 236—53.)



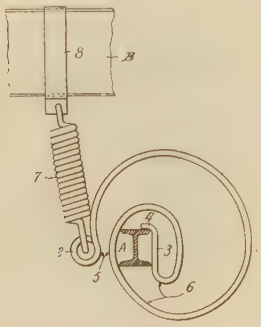
1. In a fluid trap, the combination of a valve controlling the discharge opening of said trap, and thermostatically controlled means for automatically opening said valve when binding occurs in said trap.

1,420,046. METHOD AND APPARATUS FOR TREATING LIQUIDS. DAVID G. MACGREGOR and GEORGE B. MILLEN, Wilmington, and JOHN C. W. STANLEY, Santa Cruz, Calif., assignors to The Title Guarantee and Trust Company, Los Angeles, Calif., a Corporation of California. Filed June 17, 1920. Serial No. 389,791. 2 Claims. (Cl. 210—27.)



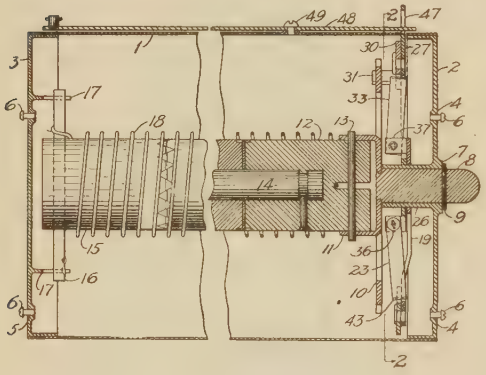
1. An apparatus for treating liquids with ozone, comprising a chamber having transparent vertical walls, a basin forming the bottom of said chamber having an outlet, a liquid reservoir with which said outlet communicates, a pipe leading upward in said chamber, a pump for discharging liquid from said reservoir through said pipe, a nozzle on said pipe adapted to discharge a portion of the liquid against the walls of the chamber and to deliver another portion of the liquid downwardly clear of the chamber walls in rain-like streams, an ozonator, and means for passing air through said ozonator and through said chamber whereby the liquid in the chamber will be subjected to the action of ozone carried by the air.

1,420,047. SHOCK ABSORBER. FREDERICK JAMES MACKLIN, Grimsby, Ontario, Canada. Filed Aug. 27, 1921. Serial No. 496,081. 4 Claims. (Cl. 267—58.)



1. In a device of the class described, the combination with a frame and axle, of a coiled band spring having the axle disposed between two of the inner coils thereof and there retained by the tensile normal contraction of said coils, and means for establishing connection between the outer end of said spring and said frame.

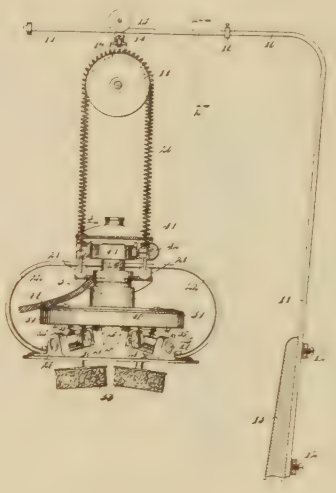
1,420,048. SPRING-MOTOR MECHANISM. FRANK MAGIDSON, Pittsburgh, Pa., assignor, by mesne assignments, to Davis Automatic Cradle Company, Uniontown, Pa., a Corporation of Pennsylvania. Filed Apr. 19, 1919, Serial No. 291,247. Renewed May 9, 1922. Serial No. 559,590. 5 Claims. (Cl. 74—14.)



3. An escapement mechanism comprising a spring impelled ratchet wheel, an oscillating arm, a stationary arm, respective pawls mounted on said arms, means adapted to alternately move said pawls into engagement with said wheel during successive oscillations of said oscillating arm and out of engagement at the end of the alternate oscillations, each of said arms being provided with means to limit the movement of its respective pawl out of engagement with said wheel.

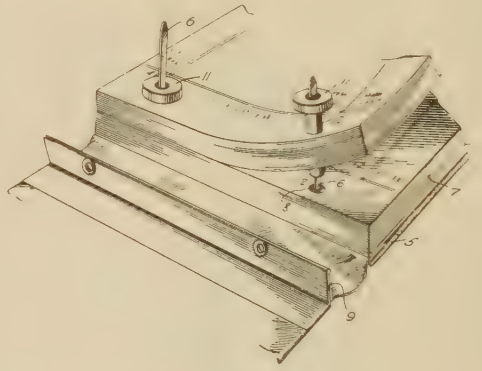
1,420,049. MASSAGE APPARATUS. JOSEPH A. MASHEK, Oak Park, Ill. Filed Sept. 10, 1918. Serial No. 253,400. 8 Claims. (Cl. 128—51.)

1. A massage apparatus comprising a support; a convex member carried by said support; contact pads carried by said member, said pads being mounted to move toward and away from each other; and an operating member engaging said pads, said operating member being provided



with a cam groove for moving said pads toward and away from each other, substantially as described.

1,420,050. TRANSFER TOOL FOR PAPER FILES. BENJAMIN F. MERRITT, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 22, 1920. Serial No. 425,767. 1 Claim. (Cl. 129—8.)

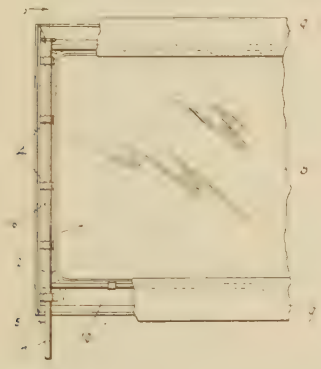


The combination with a paper file employing a spike fastening device, of a transfer tool, comprising a tubular body portion open at each end to receive the said spike fastening device, and a flat head member to engage the uppermost paper in the file the lower end of the tubular body portion being tapered to assist the passage of the tool through the aligned perforations in the papers within the file.

1,420,051. DOOR AND WALL PANEL FOR VEHICLE BODIES. CHARLES A. MINER, Kalamazoo, Mich., assignor to Limousine Body Company, Kalamazoo, Mich. Filed Feb. 27, 1922. Serial No. 539,642. 10 Claims. (Cl. 296—44.)

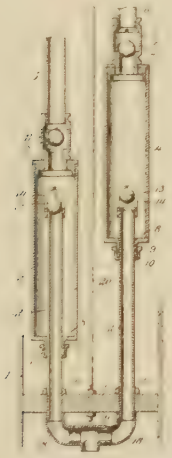
10. The combination of a panel, frame members disposed with their inner edges engaging the edges of the

panel, each member being provided with eyes on its inner side disposed so that a plurality of eyes are brought into



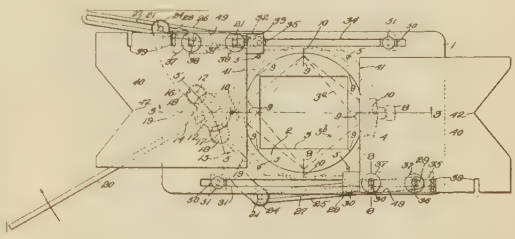
alignment when the frame members are in assembled relation, and coupling rods disposed through the aligned eyes.

1,420,052. PUMP. JAMES P. MONTGOMERY, Moore, Okla., assignor of forty per cent to Cleo H. Brand, Moore, Okla., and ten per cent to John G. Lindsay, Norman, Okla. Filed Aug. 18, 1919. Serial No. 318,244. 5 Claims. (Cl. 103—72.)



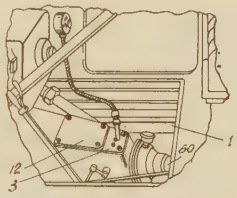
1. A pump comprising oppositely reciprocatory cylinders, oppositely reciprocatory pipes carrying and actuating the cylinders and conducting fluid from the cylinders to a point of overflow, and stationary displacement pistons each individual to and entering a cylinder through the center of the bottom head thereof and communicating with the liquid being pumped, the area of the bottom head of each cylinder within the latter and exterior to and around the piston being as large as the area of the outlet pipe of the respective cylinder, whereby the full weight of the water in the cylinder and pipe acts upon the head on the down stroke.

1,420,053. SHUTTER ATTACHMENT FOR MOVING-PICTURE CAMERAS. EMIL M. MUELLER, New York, N. Y., assignor to C. P. Goerz American Optical Company, New York, N. Y., a Corporation of New York. Filed Sept. 13, 1920. Serial No. 409,803. 22 Claims. (Cl. 95—65.)



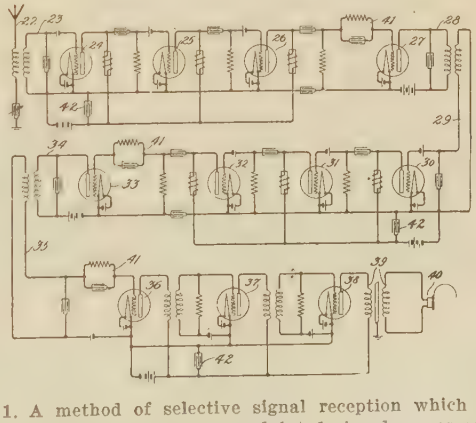
1. A camera attachment of the character described comprising a base-plate attachable to the camera; a pair of shutter carriers slidably connected with said base-plate and each provided with means for securing a shutter thereto.

1,420,054. SPEEDOMETER DRIVING GEAR. EDWARD D. MYERS, Shelby, Mich. Filed Aug. 11, 1921. Serial No. 491,594. 3 Claims. (Cl. 74—36.)



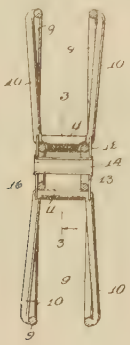
1. In a speedometer drive, the combination of the transmission with propeller shaft in a suitable casing, a clutch spring support provided with an extension bearing a suitable worm with the hub rigidly secured to the propeller shaft, a cover door for the transmission case with a bearing boxing thereon, and a speedometer shaft disposed obliquely therein, with bevel gear at its upper end, and a worm gear on the said shaft engaged by the said worm, coacting as specified.

1,420,055. SELECTIVE RECEIVING SYSTEM. HAROLD W. NICHOLS, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 18, 1920. Serial No. 431,555. 15 Claims. (Cl. 250—20.)



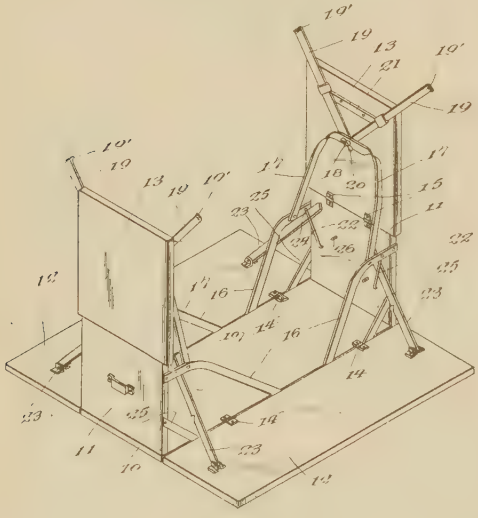
1. A method of selective signal reception which comprises detecting incoming modulated signal waves selecting a harmonic frequency of said waves, detecting said waves of selected frequency and indicating the modulating waves.

1,420,056. REEL FOR PHOTOGRAPHIC FILMS. HERBERT G. OLIVER, New York, N. Y. Filed Sept. 1, 1920. Serial No. 407,356. 6 Claims. (Cl. 242—70.)



1. A reel as characterized having marginal rings disposed in spaced relation; a plurality of U-shaped supports therefor, said supports being disposed in spaced relation and radially to said rings, said supports having cross members removed from the center of said rings; and a drum for winding a film, said drum engaging said cross members for holding the same in spaced relation.

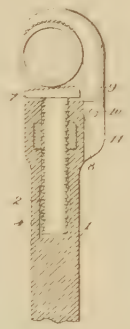
1,420,057. FOLDING CAMP TABLE. WILLIAM B. PENLAND, Vallejo, Calif. Filed July 13, 1921. Serial No. 484,411. 2 Claims. (Cl. 190—12.)



1. A combined storage receptacle and table comprising movably connected bottom, side, end, and top members forming the walls of a box, brace means between the bottom and end, foldable means between the said brace means and the top members for holding said top members in table supporting leg position, at times, and brace means between the sides and ends for holding the sides in the same plane as the bottom, at times, and in engagement with the ends, at times.

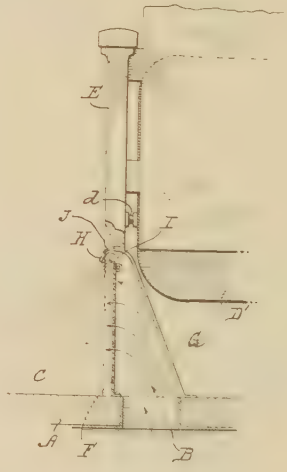
1,420,058. PIPE WRENCH. HOWARD F. ROBINS, Cedar Rapids, Iowa. Filed June 11, 1921. Serial No. 476,927. 1 Claim. (Cl. 81—166.)

A pipe wrench comprising a handle with an expanded head cored to receive the shank of a movable jaw, a jaw having a threaded shank movable endwise of the handle in said core, an adjusting nut therefor mounted in a mortise in said head, and an outer jaw having an inwardly serrated, crescent-shaped working portion, and a shank pivoted to the lateral expansion of the head, to



rock thereon, the perimeter of the jaw to its junction with the head being without any external projections to obstruct reciprocating movement of the wrench in close places.

1,420,059. AISLE-ILLUMINATING MEANS. LOUIS ROTH, New York, N. Y., assignor to Sterling Bronze Company, New York, N. Y., a Corporation of New York. Original application filed May 20, 1920, Serial No. 382,731. Divided and this application filed Oct. 6, 1920. Serial No. 415,024. 3 Claims. (Cl. 240—4.)

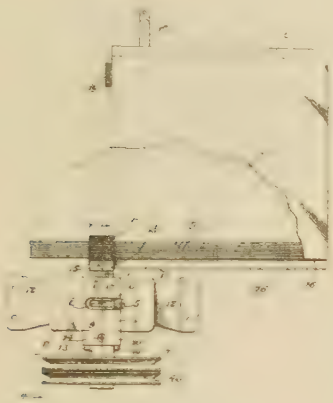


2. A theatre chair embodying an end frame, a vertically extending member positioned in the vertical plane of said end frame, an inclined member in opposing relation to said vertically extending member and positioned on the inside of the end frame, a hood unitary with said inclined member and extending transversely to the end frame to occupy an overhanging relation to the vertically extending member, and a source of light encased within the hood the under surface of which reflects the light downwardly and laterally with respect to the vertically extending member.

1,420,060. CORRUGATING MACHINE. ADOLPH RUBIN, St. Louis, Mo., assignor to Sieber Products Mfg. Co., St. Louis, Mo., a Corporation of Missouri. Filed Oct. 20, 1919. Serial No. 331,777. 3 Claims. (Cl. 92—70.)

1. A sheet corrugating machine, comprising a pair of grooved rolls between which a sheet is adapted to be

passed, shafts on which said rolls are mounted, a supporting structure in which one of said shafts is journaled, an adjustable eccentric bearing in said supporting structure in which the other shaft is journaled, a securing means for said eccentric bearing comprising an adjustable



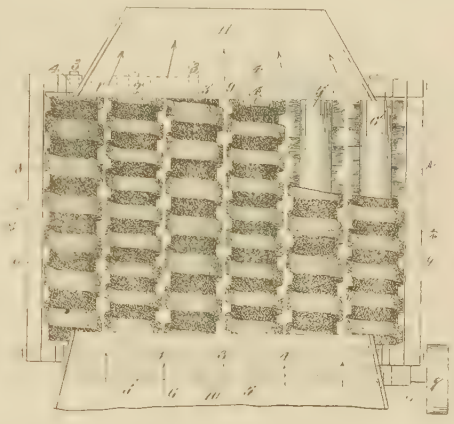
screw in said bearing projecting radially therefrom through an elongated slot in said supporting structure and provided with a head and a clamping block interposed between said supporting structure and the head of said screw.

1,420,061. SANITARY TRAY FOR HIGH CHAIRS. THERESA M. RAPPELINE, Bridgeport, Conn. Filed Oct. 15, 1921. Serial No. 507,980. 4 Claims. (Cl. 65—53.)

1. A sanitary tray comprising a dish shaped member adapted to be removably seated within the rim of the usual tray of a child's high chair and provided with an outwardly extending flange to rest on said rim, and a flat tray removably supported in the dish shaped member intermediate the top and bottom thereof and provided with drain openings to remove liquid spilled on the top thereof to the under side thereof.

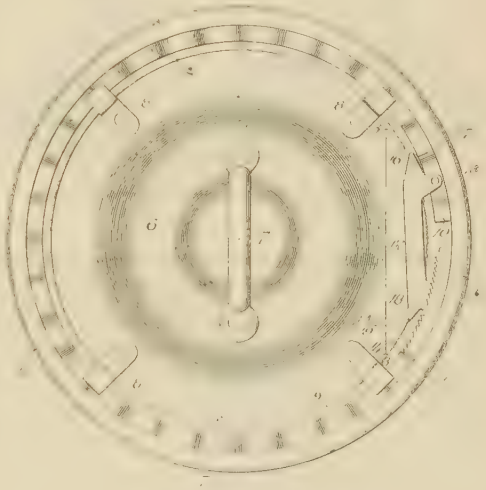
1,420,062. POLISHING APPARATUS. BRONSON C. SKINNER, Dunedin, Fla., assignor to Skinner Machinery Company, Dunedin, Fla., a Corporation of Florida. Filed Feb. 1, 1922. Serial No. 533,486. 1 Claim. (Cl. 146—14.)

A polishing apparatus comprising a plurality of rotatably mounted parallel brushes, adjacent brushes forming between them a fruit runway, said brushes formed with a peripheral spiral pitched in the same direction, the pitch of the spiral of one brush being greater than



the pitch of the spiral of an adjacent brush, and means for rotating said brushes in the same direction.

1,420,063. TANK CLOSURE. GEORGE L. SMITH and DORSEY F. ASBURY, Washington, D. C. Filed Aug. 16, 1920. Serial No. 403,872. 2 Claims. (Cl. 220—61.)

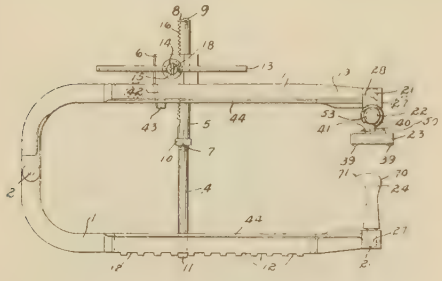


2. In a tank, the combination of a tank body having a wedging surface and a sealing ledge, an expansible split locking ring coacting with the wedging surface during expansion and when expanded to force the cover against the sealing ledge, said ring having its inner periphery adjacent one end provided with teeth, a toothed pawl pivoted to the other end of the ring and cooperating with the teeth on the ring to lock the latter in an expanded position, and a longitudinal extension on the free end of the pawl constituting a fulcrum for a tool engaged with the ring teeth in the operation of manually expanding the ring.

1,420,064. DEVICE FOR SMOOTHING SHEET METAL. JOHN C. STILES, St. Louis, Mo. Filed Feb. 28, 1921. Serial No. 448,568. 14 Claims. (Cl. 81—15.)

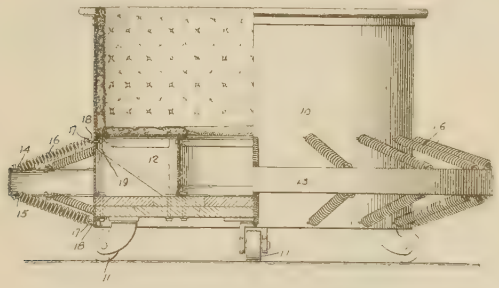
2. In a device of the character described comprising a portable frame composed of a pair of arms pivoted to each other at one end and having sockets at the other end adapt-

ed to receive and hold tools, a cross-bar, there being a rack upon the said cross-bar, a sleeve block mounted on the



said rack, a shaft having teeth passing through the said sleeve block, the said teeth engaging the said rack, and means for rotating the said shaft.

1,420,065. BUFFER FOR AMUSEMENT CARS. CHAUNCEY FRANK STILLMAN, North Bergen, N. J. Filed June 15, 1921. Serial No. 477,679. 3 Claims. (Cl. 46—27.)

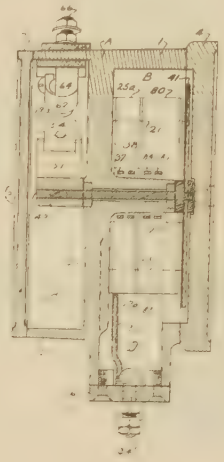


1. A buffer construction for amusement cars of the character set forth, comprising a rigid annular band and radially disposed tension springs connecting the band to the car body for holding the same in encircling relation with respect thereto, whereby the shocks incident to the contact of the car with another or with the sides of a platform will be absorbed by the tension springs at the opposite side of the car to that with which the contact is made.

1,420,066. DOUGH PRESS. DARIO TABUCCHI, Nice, France. Filed June 8, 1920. Serial No. 387,502. 2 Claims. (Cl. 107—14.)

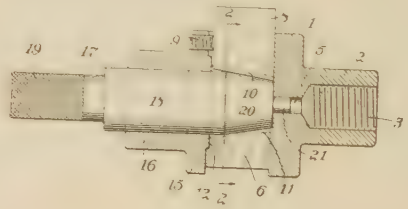
1. A dough press including a feed hopper, means for driving the dough from the hopper, including two rolls, two blocks below the roll between which the dough is forced to pass, and a lining therebetween, extending upwardly in proximity to said rolls, the upper edge of which is beveled to scrape the dough from the rolls.

1,420,067. ALTERNATING-CURRENT RELAY. OLOF THOMPSON, New York, N. Y., assignor to Edward S. Perot, Yonkers, N. Y. Filed Nov. 1, 1918. Serial No. 260,750. 20 Claims. (Cl. 200—91.)



19. An alternating current relay, comprising a casing with side and end walls having magnetic conductivity, pole pieces operatively connected up with said casing in parallelism with the longitudinal axis thereof, series and shunt windings mounted in pairs side by side on said pole pieces, said windings being respectively connected up with a main electric circuit and a branch circuit, an armature actuated by either of said windings about an axis coinciding with that of the casing, both windings having the same magnetic field through the pole pieces, the armature, and the casing walls, and the contact member operated from the armature so as to open and close an auxiliary line controlling the main circuit.

1,420,068. CUTTER HEAD AND GAUGE. FLOYD VOGEL, Hackettstown, N. J. Filed Nov. 23, 1920. Serial No. 426,074. 2 Claims. (Cl. 29—105.)

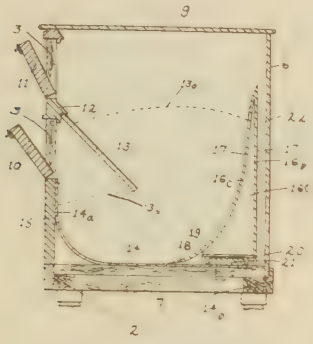


1. A cutter head comprising a body having a chamber, a knife mounted upon the body and extending into the chamber, the body being provided at the opposite sides of the chamber thereof with work centering means which are fixed with relation to the body and unalterably mounted with relation to each other, the parts being so arranged that the work centering means may receive finished and spaced portions of a piece of work whereby an unfinished intermediate portion of the work may traverse the chamber and is centered therein and accurately positioned for final dressing by the knife.

1,420,069. DISPLAY BIN. FRANK F. WEAR, Montara, Calif. Filed Jan. 24, 1922. Serial No. 531,339. 5 Claims. (Cl. 211—11.)

3. In a display-bin, a transparent receptable open to inspection from its ends, front and top, an adjustable toe-

block for forming a pocket at the front of said bin adapted to receive and display specimens of the salable product to



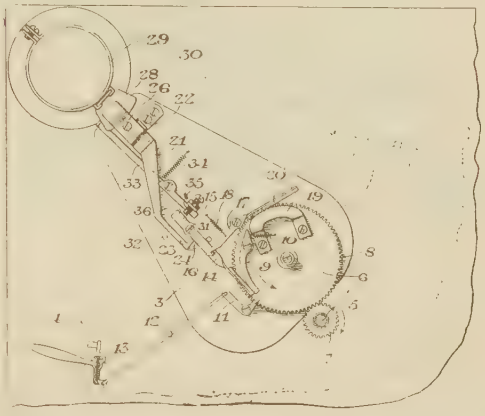
be held in said bin, and means for removably securing said toe-block in position within said bin.

1,420,070. TEMPORARY RAIL JOINT. LOUIS A. WELCH, Camden, N. J. Filed Feb. 23, 1922. Serial No. 538,625. 5 Claims. (Cl. 238—188.)

1. The combination with the broken ends of rail sections, of a plurality of clamps on each side of the rail sections, embracing the base thereof and fitting between the base and the ball of the rail, an elongated holding plate spiked to the tie and having means in wedging engagement with the clamps to hold them against the rail sections and to prevent them from leaving the tie.

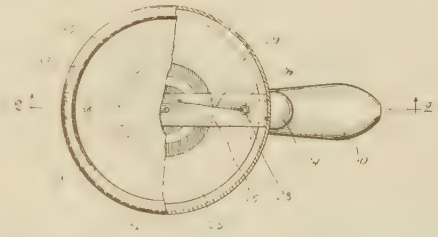
1,420,071. AUTOMATIC STOP FOR SOUND-REPRODUCING MACHINES. WALTER G. ALTHAUS, Shawano, Wis., assignor of one-fourth to Howard B. Richmond, Shawano, Wis. Filed Apr. 28, 1921. Serial No. 465,121. 12 Claims. (Cl. 192—116.)

2. In a sound reproducing machine, the combination, with brake mechanism and the tone arm, of a support, a dog mounted on said support and operatively engageable with said brake mechanism, means for revolving said support concurrently with the record, a lever adapted to be positioned in the path of said dog to prevent its operation during the playing of the record, a pair of tension members controlled by the movement of the tone arm for bringing



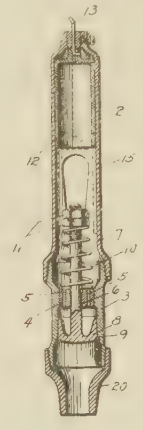
said lever to an operative position, and means for locking said lever in an operative position while the record is being played at the time when the dog passes said lever.

1,420,072. MECHANICAL TOY. LOUIS V. ARONSON, Newark, N. J. Filed Aug. 27, 1921. Serial No. 496,187. 6 Claims. (Cl. 46—14.)



1. A toy of the class described comprising a handle frame, an abradant disc journaled on a fixed axis in said frame, means for rotating said disc, and one or more pyrophoric points spring pressed upon the face of said disc.

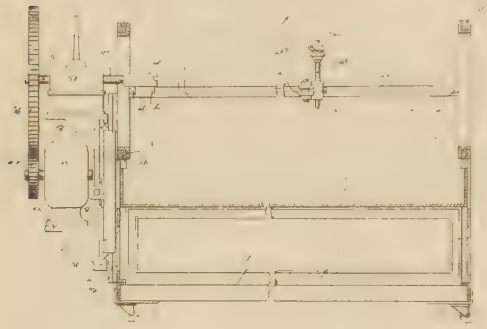
1,420,073. AUTOMATIC AIR-BRAKE VALVE FOR AUTOMOBILE ENGINES. LE ROY J. BABCOCK, Denver, Colo. Filed Aug. 13, 1921. Serial No 492,180. 1 Claim. (Cl. 277—65.)



In a device of the class described, the combination with the intake manifold of a gas engine, of a casing connected

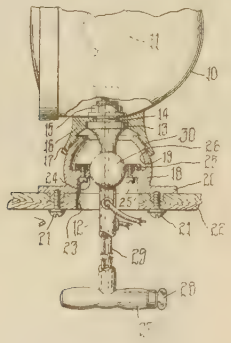
therewith, and having a perforated bridge-piece therein, a cylinder connected in alinement with the casing, a seat formed in the casing, a valve yieldably engaged with the seat, said valve having a stem slidable in the bridge-piece and extended into the cylinder, said cylinder having a tapered slot formed longitudinally therein, a hollow piston slidably mounted in the cylinder, and means for sliding the piston to regulate the passage of atmospheric air through said slot.

1,420,074. ENGINE STAND AND BURNING-IN MACHINE. HENRY BEHRENS, Peshtigo, Wis. Filed Oct. 28, 1920. Serial No. 420,102. 5 Claims. (Cl. 29—1.)



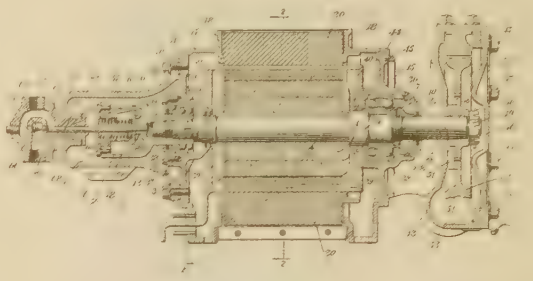
1. In a device of the class described, a frame, means for clamping an engine thereon and means for turning the crank shaft of said engine, said last named means being adjustable horizontally and vertically so that it may be adjusted to the crank shaft of any size or type of engine.

1,420,075. LAMP SUPPORT. JOSEPH BERGE, Flint, Mich. Filed May 20, 1920. Serial No. 382,829. 4 Claims. (Cl. 240—7.)



1. In a lamp mounting for motor vehicles or the like the combination of a vehicle body having an outwardly exposed portion formed with an aperture, a support secured to said body around said aperture and provided with a curved socket, a lamp casing, a rod rigidly secured thereto and provided with a ball member spaced from the lamp casing and seated in said socket, said rod extending through said aperture and provided with a handle inside the vehicle body whereby the lamp casing may be adjusted from the interior of the vehicle, means for preventing passage of water or dust through the joint between the ball and socket, and means arranged to be accessible from the interior of the vehicle to clamp the said ball in the socket.

1,420,076. TURBOGENERATOR. WILLIAM F. BOUCHÉ, Lancaster, and ELI J. BLAKE, Buffalo, N. Y., assignors to Gould Coupler Company, a Corporation of New York. Filed Oct. 30, 1918. Serial No. 260,286. 5 Claims. (Cl. 290—52.)

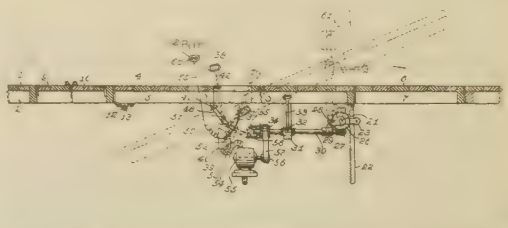


1. The combination of an electric generator, with its driving shaft, a turbine driving the shaft and a centrifugal governor with its valve for regulating the turbine, the generator being provided with a framework supporting all three units, the turbine runner being rigidly connected to the shaft on one side of the generator, and the centrifugal governor being directly connected to the shaft on the other side of the generator, and said shaft having only two sets of bearings, one set between the turbine and generator and the other set between the centrifugal governor and valve and the generator.

1,420,077. ANTIRATTLING DEVICE FOR AUTOMOBILES. HOWARD C. BRINKERHOFF, Allston, Mass. Filed Apr. 12, 1921. Serial No. 460,859. 3 Claims. (Cl. 64—55.)

1. An anti-rattling device, comprising spaced washer members provided with aligned openings, one of said washer members provided with an annular recess adjacent the opening therein, a coil spring, one end of said coil spring bearing against one of said washers and the other end of said coil spring seating in said annular recess of the other of said washers, a second coil spring interposed between said washers and encircling said first named coil spring, and a flexible container arranged about said washers and said springs, substantially described.

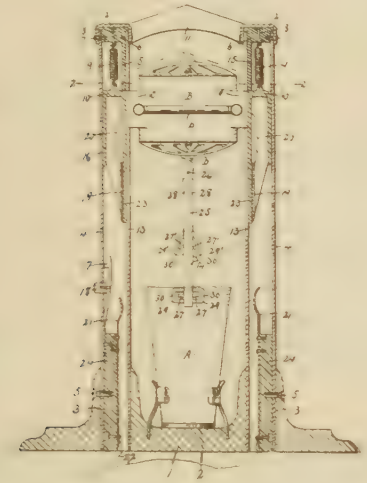
1,420,078. COMBINATION TRUCK AND WAGON DUMP. THOMAS E. BRITTON, Cedar Falls, Iowa. Filed Feb. 17, 1921. Serial No. 445,816. 14 Claims. (Cl. 214—49.)



1. A tiltable dumping platform, and means for tilting it comprising a rack mounted thereon, a pinion meshing

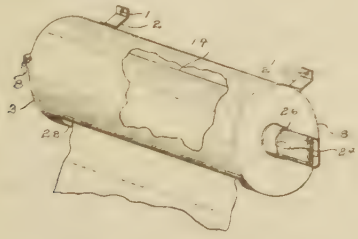
with said rack, and self-locking mechanism including a worm and worm-wheel intermeshed therewith with the worm mounted to rock about the worm-wheel and operatively connected to and adapted to rotate said pinion.

1,420,079. APPARATUS FOR MIXING LIQUIDS. WILLIAM M. CALKINS, Syracuse, N. Y. Filed Feb. 3, 1920. Serial No. 356,084. 1 Claim. (Cl. 259—134.)



An agitator for liquid mixing apparatus comprising a tube having an air inlet near one end and its opposite end closed, branch tubes secured to the main tube and communicating with the interior thereof and having their outer ends open, and additional branches secured to the main tube and overhanging the outer ends of the first named branch tubes in slightly spaced relation thereto to deflect the air escaping from the branch tubes, and means for rotating the agitator.

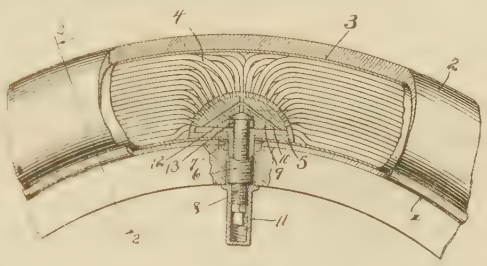
1,420,080. DISPENSING APPARATUS. JERMAIN CHANDLER, Toledo, Ohio. Filed Aug. 10, 1921. Serial No. 491,265. 5 Claims. (Cl. 211—31.)



1. A support for a roll of strip material, said support being provided with roll engaging means, a mounting for the support in which the support is rotatable, a handle for operating the support, and a clutch releasable by shifting a handle and normally holding the roll and support against rotation as to the mounting.

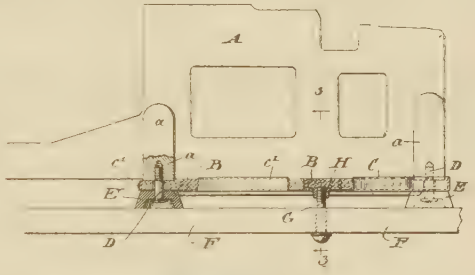
1,420,081. PNEUMATIC TIRE. VINCENT DIRIENZO, Madison, Wis. Filed Nov. 30, 1921. Serial No. 518,962 1 Claim. (Cl. 152—22.)

In a pneumatic tire, an outer housing, a plurality of small tubes inside thereof, a valve chamber within said outer housing and having one face shaped so as to conform substantially to the outer tire casing, and the remainder of its surface substantially in the shape of a spherical segment, said spherical portion having openings in communication with the respective small tubes, a valve in the shape of a spherical segment of the same radius as said spherical surface, but of less altitude than the chamber ducts leading through said valve and opening



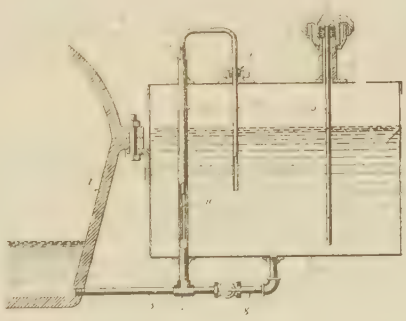
into the chamber, said valve being operable to close the communication between the chamber and each of the small tubes.

1,420,082. SOUND-MUFFLING PAD FOR TYPEWRITING MACHINES. BERNARD J. DOWD, Hartford, Conn., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 3, 1921. Serial No. 512,542. 10 Claims. (Cl. 45—52.)



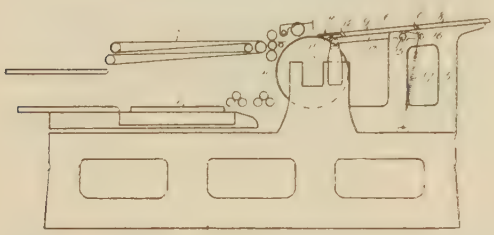
9. The combination with the base of a typewriting machine of a sound muffling pad underlying the same, and extending between the corners thereof, said pad comprising a frame and a mat associated therewith and means engaging the base to draw the pad into close contact with the edges thereof.

1,420,083. SPLASH LUBRICATING SYSTEM. LAWRENCE M. ENDRES and MICHAEL A. ENDRES, Dane, Wis. Filed Oct. 8, 1921. Serial No. 506,374. 2 Claims. (Cl. 184—103.)



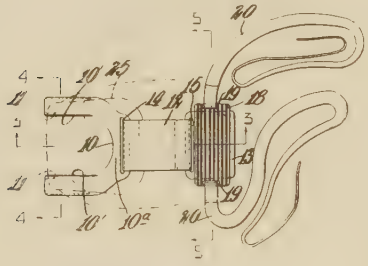
1. An oil feed mechanism for engine crank cases comprising a reservoir, a valve controlled feed pipe extending from the reservoir into the bottom of the crank case, a vent pipe in communication with the feed pipe, the same being extended above the normal line of oil maintained in the reservoir, and a goose neck pipe having a short leg and a long leg, said legs being connected rigidly together, the long leg being adjustable within the vent pipe to predeterminately control the level of oil within the crank case, said legs being simultaneously adjustable

1,420,084. FEED TABLE FOR PRINTING PRESSES. FRED S. ENGLISH, New London, Conn. Filed June 30, 1919. Serial No. 307,790. 9 Claims. (Cl. 271—8.)



1. In a printing press the combination of printing means and a feed table said feed table consisting of a plurality of independent sections, one of which sections is mounted nearest the printing means and is of small area relatively to the feed table as a whole, said sections being mounted whereby said section of small area is separated by an air gap from the remainder of the feed table.

1,420,085. TOENAIL-GROWING GUIDE. ANTHONY FIGIELEK, Centralia, Ill. Filed Aug. 5, 1921. Serial No. 489,978. 5 Claims. (Cl. 128—81.)



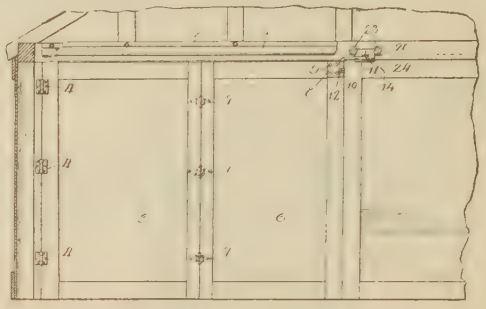
1. A device of the class described comprising a one-piece clip of U-shape and formed to present confining side channels, adapted to receive the edges of a toe-nail therein, and means attached to the yoke-piece of the clip for securing the same to the foot of the user.

1,420,086. PRINTING. THOMAS S. FOX, Brooklyn, N. Y. Filed Aug. 22, 1919. Serial No. 319,261. 8 Claims. (Cl. 41—43.)

1. The process of reversing impressions in printing consisting in the making of said impressions in a water soluble ink, then dusting on powdered material, then rolling on another ink soluble in another solvent and then dissolving away the water soluble ink.

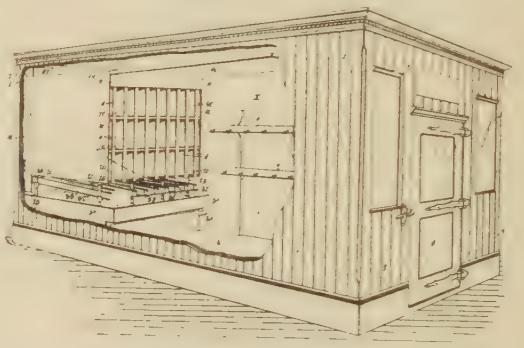
1,420,087. GARAGE-DOOR CONSTRUCTION. PETER FRANTZ, Sterling, Ill., assignor to Frantz Manufacturing Co., Sterling, Ill., a Corporation of Illinois. Filed Apr. 23, 1920. Serial No. 375,988. 12 Claims. (Cl. 20—20.)

1. In door construction, the combination of a track, a hanger body having wheels to travel on said track, a movable door section, an arm pivoted to swing horizontally on said hanger body, said body having means to releasably retain the arm parallel with said track, so that said arm is held against further inward swing, when the door is closed, adapted to permit the arm to swing freely when



released from said parallel portion, and a swivel to support the door on said arm.

1,420,088. BUTCHER'S ICE BOX. EDWARD FRIEDRICH, San Antonio, Tex. Filed May 28, 1921. Serial No. 473,425. 8 Claims. (Cl. 62—69.)

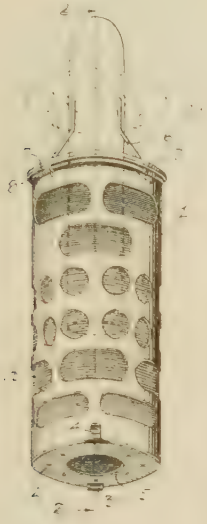


1. In a butcher's ice box of the character stated, a combined ice holding and air cooling chest having a series of alternately disposed vertical spaces, one set of the said spaces forming air chambers, one end of each of which chambers is open the full height thereof, the other end of which has a series of air passages whereby to provide for the free circulation of the air, in horizontal direction, through the said air chambers, the other set of chambers extending substantially the full height of the chest and open at the top of the chest for the reception of ice, the said ice and air chambers being substantially wedge shaped in horizontal section and alternately disposed, relatively to each other, whereby the wide ends of the air chambers are disposed between the narrow ends of adjacent pairs of ice chambers and the wider ends of the ice holders are likewise located between the narrow ends of adjacent pairs of air chambers, the bottom of the ice holders having apertures, a platform on which the chest rests, supports for holding the bottom of the chest above the platform, and alternately disposed sets of troughs and air spaces located on the platform under the air and ice chambers of the chest, the said troughs and air spaces being substantially wedge shaped in horizontal planes.

1,420,089. SMOKING APPLIANCE. JOSEPH B. GARCIA, San Francisco, Calif. Filed Apr. 19, 1921. Serial No. 462,766. 1 Claim. (Cl. 131—51.)

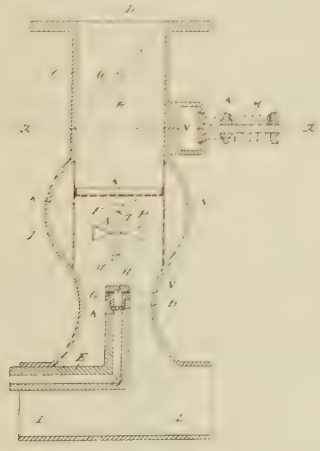
In a device of the class described, a perforated barrel like casing, a gauze lining for said casing, a hinged cover for one end of said casing, the opposite end of the casing being open to receive the lighted end of a cigar, and

means for attaching the casing to the cigar, comprising a plurality of spring influenced attaching fingers fixed to the rim of the open end of the barrel and having empaling points adapted to be embedded in the sides of the cigar,



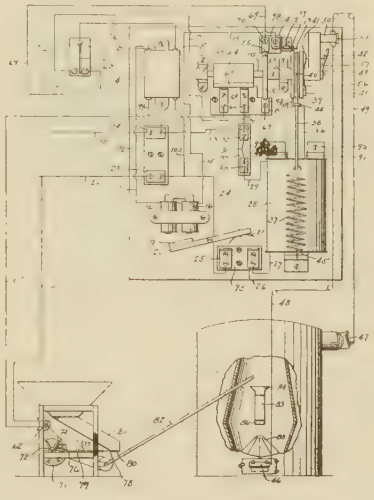
and means for manipulating said fingers, comprising a ring member having openings through which the attaching fingers pass, said fingers being bent with an angularity which will move them to and from the sides of the cigar when the ring member is moved to and from the casing.

1,420,090. CARBURETOR FOR INTERNAL-COMBUSTION ENGINES. NIKOLAI GAROFF, Helsingfors, Finland. Filed Mar. 31, 1917. Serial No. 158,847. 1 Claim. (Cl. 48—180.)



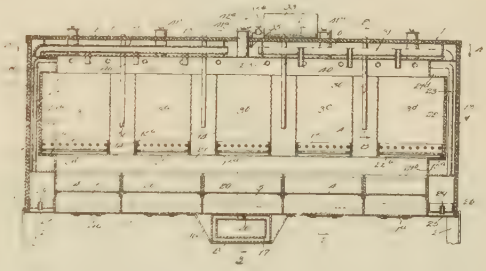
For the purpose stated, a mixing chamber having an enlarged part, in combination with a hollow fixed screen dividing said chamber into an upper compartment and a lower compartment and having an upper part extending above the screen top to the upper end of said enlargement for double screening, means for discharging fuel and air into said lower compartment within said screen, and an outlet from said upper compartment.

1,420,091. AUTOMATIC FURNACE. LLOYD GARRISON, Salt Lake City, Utah. Filed Nov. 1, 1919. Serial No. 335,148. 3 Claims. (Cl. 236—74.)



1. The combination, with a furnace, of a conical grate therein, a mechanical feed for the delivery of fuel thereto, a thermostat operated by the temperature variations of the air heated by the furnace, and an electrically operated device controlled by said thermostat for opening and closing the drafts of said furnace and controlling the operation of the mechanical fuel feed, substantially as described.

1,420,092. INCUBATOR. MARTIN T. GLAESER, Chicago, Ill. Filed June 3, 1918. Serial No. 237,890. 19 Claims. (Cl. 119—35.)

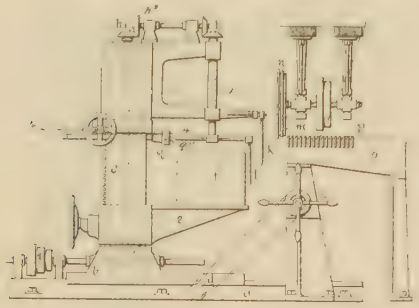


1. An incubator having, in combination, an egg chamber with an outlet, a chick chamber below the egg chamber, a passageway around the egg chamber, a heater below the chick chamber for supplying heat to said passageway and comprising a water chamber, a channel below the heat passageway, a trough in said channel and communicating centrally thereof with said water chamber of the heater, the opposite ends of said trough being raised slightly above the central portion thereof, means for admitting air into said channel to mix with the vapor rising from said trough, and means for conducting the moist air thus formed through the heat passageway into the egg chamber.

1,420,093. MACHINE FOR WORKING UP CERAMIC MASSES INTO TILES, DISKS, AND SIMILAR BODIES. ERICH GERBEL, Mannheim, Germany. Filed Mar. 25, 1922. Serial No. 546,796. 4 Claims. (Cl. 25—105.)

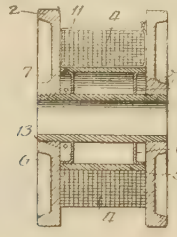
1. In a machine for making disk-shaped objects and the like from ceramic masses, a vertically adjustable support

for a mass block; means for truing the mass; means for successively cutting disks from the mass, and means for



receiving and supporting the cut disks, the said adjustable support and the said disk cutting means being arranged for relative movement toward and from each other.

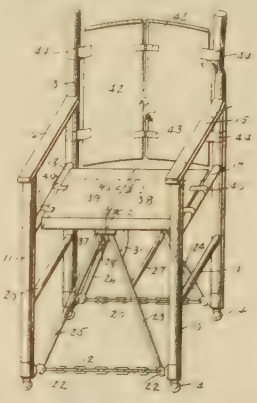
1,420,094. REEL. J BIRCHARD GREEN, Chicago, Ill., assignor to Chicago Steel and Wire Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 24, 1919. Serial No. 347,112. 13 Claims. (Cl. 242—124.)



1. A reel for wire comprising a hub having provisions to mount the reel for rotation, and flanges for said hub, spaced apart to hold the winding between them, having means for rotatably removing at least one of said flanges to permit loading of the reel, said winding having a cylindric filler secured therein and upon which the wire is wound for shipment, and to facilitate placing of said winding on the reel, said filler having a bore fitting said hub to center the winding in the reel before and also after the removable flange is adjusted in place, and said filler being adapted for compression and serving frictionally to prevent relative rotation between said flanges, characterized by this, to wit:—said filler comprising a hollow cylinder of fibrous material, and cup shaped heads having the flanges thereof permanently secured in the cylinder, each head having a central opening.

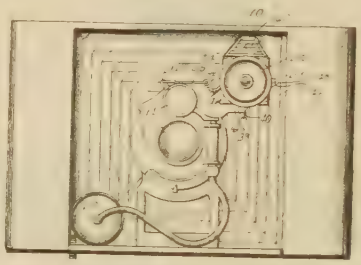
1,420,095. COLLAPSIBLE CHAIR. ADAM GUTTER, Horning, Pa. Filed Dec. 7, 1921. Serial No. 520,560. 1 Claim. (Cl. 155—140.)

In a folding chair of the class described, a bi-partite seat and a bi-partite back rest, pairwise arranged supporting rods for said seat, supporting cleats upon the upper ends of the rods of each pair, rods having curved ends connecting each pair of said first named rods and having straight parts between their curved ends, a block of substantial U-shaped cross section through which the straight part of said rods are guided, a socket formed in the upper face of said block and rubber cushions in said



socket for cushioning the lower face of the seat parts in their extended position.

1,420,096. PHOTOGRAPHIC DEVICE. ALFRED G. HAGUE, Des Moines, Iowa. Filed Mar. 7, 1916. Serial No. 82,531. 6 Claims. (Cl. 95—10.)

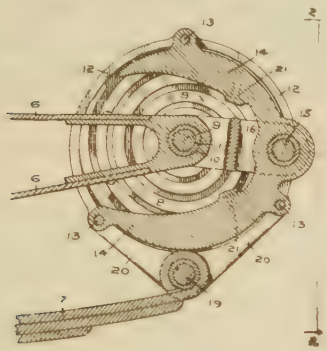


1. In a camera, an automatic shutter having a timing device, said timing device including an adjustable arm, a view finder including a casing, an exposure meter embodying a pivoted element arranged within said casing and having spaced portions of different degrees of translucency, means connecting the pivoted element and the adjustable arm so that the arm is shifted upon the movement of the element, and manually operated means to move the pivoted element.

1,420,097. DISK WHEEL. GEORGE E. HARVEY, Buffalo, N. Y., assignor to Harvey Rim & Wheel Company, a Corporation of New York. Filed Aug. 8, 1921. Serial No. 490,592. 5 Claims. (Cl. 301—63.)

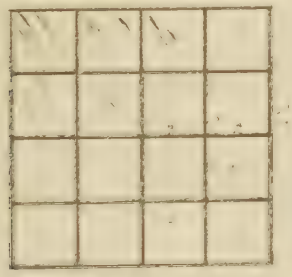
1. In a wheel, a disk extending from hub to rim, and another disk similarly extending having annular convolutions, the alternate r pexes of which abut against the first named disk.

1,420,098. SHOCK ABSORBER. ROBERT H. HASSLER, Indianapolis, Ind. Filed May 6, 1919. Serial No. 295,081. 10 Claims. (Cl. 267—27.)



10. In a shock absorber for vehicles, a vehicle frame, a vehicle leaf spring, a supplementary spiral spring arranged on each side and supported at their axes in the end of said vehicle frame, a housing yieldingly supported by each of said supplementary spiral springs, a spacer bearing against the adjacent sides of the supplementary spiral springs for holding the latter a determined distance apart, means for clamping the inner convolutions of the supplementary spiral springs, means for pivotally connecting the axes of the supplementary spiral springs and the end of the frame eccentrically with said spacer, and means for eccentrically connecting the vehicle leaf spring with said housings.

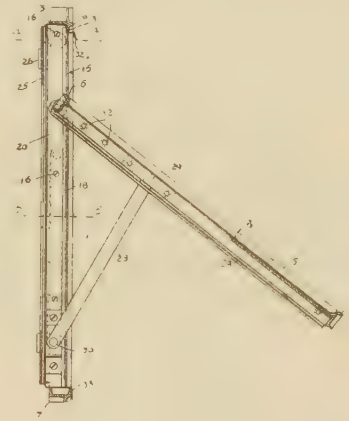
1,420,099. SASH FRAME. FREDERICK HAUSER, San Francisco, Calif. Filed Mar. 29, 1920. Serial No. 369,642. 4 Claims. (Cl. 189—76.)



1. A metallic sash frame, comprising upright bars, cross bars interfitted with the upright bars, strips extending continuously along outer edges of the upright bars, flanges on said strips disposed on opposite sides of upright bars, strips extending along corresponding edges of the cross bars being separated by said first named strips with their ends overlying and engaging said flanges, and flanges on the last-named strips, disposed on opposite sides of the cross bars.

1,420,100. VENTILATOR FOR METALLIC SASH FRAMES. FREDERICK HAUSER, San Francisco, Calif. Filed Apr. 5, 1920. Serial No. 371,182. 3 Claims. (Cl. 189—67.)

1. The combination with a metallic sash frame having a ventilator opening therein and a ventilator, of channeled tracks secured to the vertical sides of the openings, rollers carried on the upper ends of the sides of the ventilator and slidable in said tracks, channeled bars secured to opposite sides of the ventilator flanges on the tracks and bars adapted to engage one another when the ventilator is closed and links pivoted within and to the

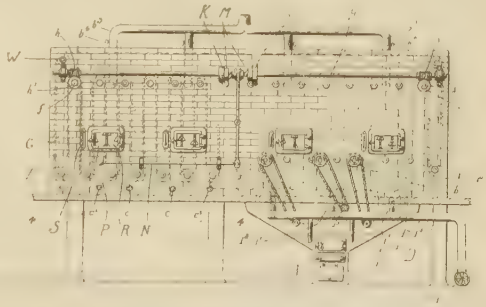


lowest portions of the tracks and to and within the intermediate portions of bars, said bars and tracks enclosing the links when the ventilator is closed.

1,420,101. CREEPER. BERT L. HERRICK, Oakland, Calif. Filed Nov. 28, 1921. Serial No. 518,252. 3 Claims. (Cl. 5—4.)

1. An automobile creeper, comprising an inverted annular channel structure having a flat bottom incasing and supporting a plurality of swiveling rollers, the inner wall of said channel being continuous forming thereby a seat having smooth and plain surfaces for the support of a workman when lying down for the purpose set forth.

1,420,102. COMBINED PROVING AND BAKING OVEN. HARRY HILENBRANT, Cincinnati, Ohio. Filed July 9, 1920. Serial No. 394,973. 8 Claims. (Cl. 107—57.)

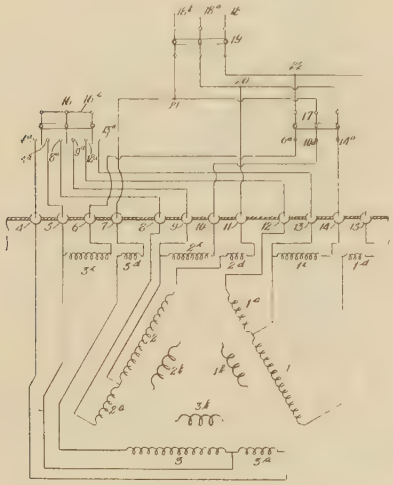


1. In a baking oven the combination with a series of independent baking ovens adjoining one another, of a series of proving chambers adjoining one of the baking ovens, partitions separating the ovens and proving chambers and means for carrying articles traveling through the proving chambers, through the baking ovens, and between the partitions.

1,420,103. TRANSFORMER. SAMUEL HORELICK, Pittsburgh, Pa., assignor to Pittsburgh Transformer Company, a Corporation of Pennsylvania. Filed May 10, 1921. Serial No. 468,402. 11 Claims. (Cl. 171—119.)

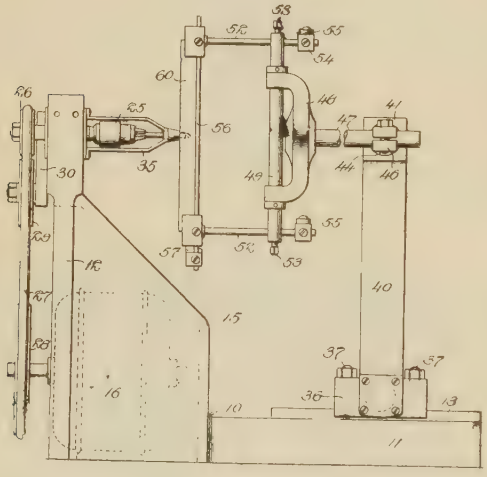
1. An enclosed transformer comprising polyphase primary and secondary windings, a reactance coil for each

phase respectively located within the enclosing means, leads from the primary windings and reactance coils passing through the enclosing means, and external controlling means whereby the reactance coils may first be



connected in series with the primary windings respectively in the line circuits and with the primary windings connected in delta, and then the primary windings be connected in star and the reactance coils removed from the series connection.

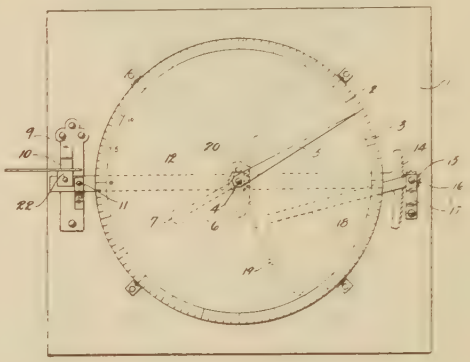
1,420,104. BRUSH-BLOCK-BORING MACHINE. EDWARD W. HOWE, Toledo, Ohio. Filed May 10, 1921. Serial No. 468,407. 2 Claims. (Cl. 144—96.)



1. A brush block boring machine comprising a base having a drill mounted thereon, and brush block holding means mounted on the base and including an arm pivoted for swinging movement in a plane parallel with respect to the axis of the drill, a shaft carried by said arm and disposed parallel to the pivotal axis thereof, said shaft being rotatably adjustable with respect to the arm, a rotatably adjustable shaft carried by and disposed at right angles to said first mentioned shaft, a frame carried by said second mentioned shaft, and means carried by said last shaft upon which the brush block is secured.

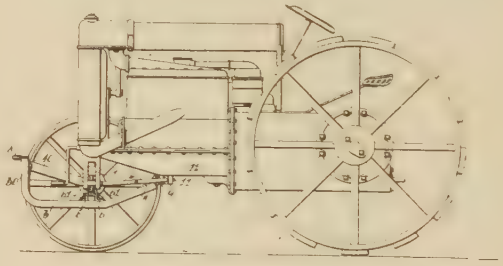
1,420,105. MEASURING INSTRUMENT. JOHN HUTCHINS, Auburn, Wash. Filed Aug. 27, 1921. Serial No. 495,891. 1 Claim. (Cl. 33—148.)

A device of the class described comprising in combination, a base member, a graduated dial fixed in spaced relation to the base, an abutment fixed to the base at one side of the dial, a lever pivotally supported adjacent the abutment and having a block pivotally mounted thereon relatively close to said pivot point of the lever and adapted to cooperate with the abutment to receive objects for measurement between the same, said lever having a relatively long end portion provided with a gear segment at its end, a shaft rotatably mounted centrally of the dial, a gear wheel fixed on said shaft, a



pointer fixed on said shaft and adapted on rotation of the latter to follow the graduations of said dial, an arbor pivotally supported from the base and having a gear wheel thereon in mesh with said gear segment at the end of the lever, and an arm fixed to said arbor and having a geared segment at its end meshing with the gear fixed on the pointer supporting shaft for the purpose set forth.

1,420,106. PUSH-BAR ATTACHMENT FOR TRACTORS. HERBERT G. IRWIN, Amarillo, Tex. Filed Aug. 5, 1921. Serial No. 490,122. 10 Claims. (Cl. 213—67.)

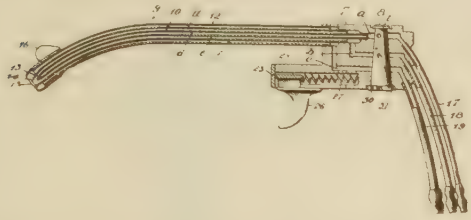


1. An attachment for tractors comprising a centrally disposed push bar having an upright end portion mounted forward of the tractor body below the center of revolution of the starting crank thereof and parallel thereto, the said bar including a horizontal midway portion disposed directly under the said starting crank and with spaced relation to and underneath the front axle at the center thereof, the said bar also including an upwardly inclined rear end portion that projects under the tractor body and the front axle brace and which is secured, at its extremity, to the said front axle brace.

1,420,107. BLOWPIPE. ALBERT E. KING, Los Angeles, Calif. Filed Nov. 17, 1920. Serial No. 424,775. 6 Claims. (Cl. 158—27.4.)

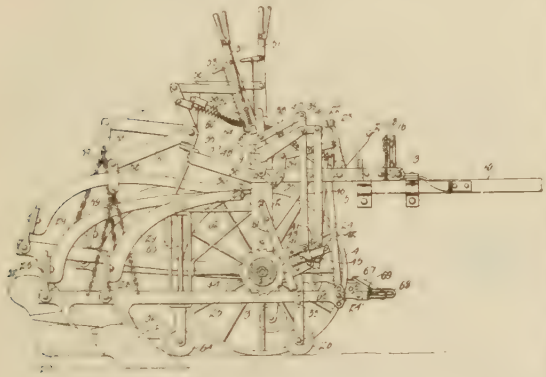
1. In a blow pipe, a valve casing having a series of three superimposed passages therein, a rotary valve in said casing adapted to close said passage, said valve being formed with parallel ports adapted to open a pair

of the passages and formed with a second pair of ports extending on an angle to the plane of the first named



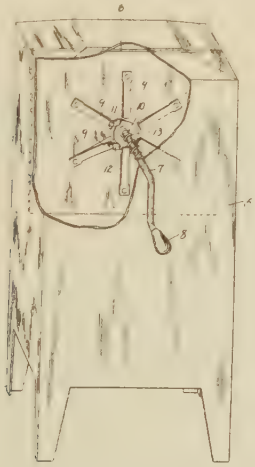
ports adapted to open the other passage and form a communication between the other passages, and a nozzle embodying a series of ducts connecting with said passages.

1,420,108. SULKY PLOW. CHARLES KINNEY, Elmira Heights, N. Y., assignor, by mesne assignments, of one-third to Louise Maye Ostrander, Elmira, N. Y. Filed Sept. 15, 1920. Serial No. 410,352. 22 Claims. (Cl. 97—54.)



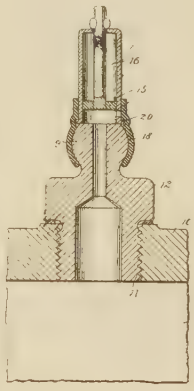
1. In a gang-plow the combination of, a frame, a plurality of plows thereon, all the plows pointing in the same direction, a draft device and steering means at the front of the frame, and means to shift the steering means and draft device independently of each other transversely of the frame.

1,420,109. MUSICAL TOY. MICHAEL KAUFMAN, New Haven, Conn. Filed Oct. 25, 1920. Serial No. 419,256. 2 Claims. (Cl. 84—94.)



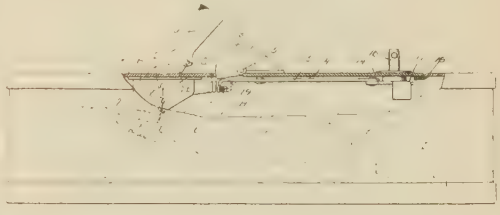
2. A musical toy comprising a casing, a plate mounted therein, a shaft mounted in the casing and extending through the said plate at right angles thereto, a series of reeds mounted in the said plate radially to the axis of said shaft, and a picker-cam fixed to said shaft and provided with two reversely-operating outwardly-offset fingers, one of which rides beneath the points of the reeds and snaps them, and the other rides over the same, without effect, according to the direction in which the shaft is turned, and a spring on said shaft tending to force the picker against said plate.

1,420,110. PISTON LOCATOR. ALBERT KLIGGE, Brooklyn, N. Y., assignor of one-half to Paul A. Schumacher, Brooklyn, N. Y. Filed Jan. 31, 1922. Serial No. 533,138. 5 Claims. (Cl. 116—114.)



2. A device for locating the position of pistons in engine cylinders, comprising a hollow plug for extending through the engine cylinder wall, a cylinder open at one end mounted on the plug, means in conjunction with the cylinder for indicating changes in pressure, and elastic means for retaining the cylinder in position on the plug and for preventing the escape of air until it reaches a certain pressure.

1,420,111. SAFETY PANEL BOX. HUBERT F. KRANTZ, Brooklyn, N. Y., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Aug. 17, 1917. Serial No. 186,661. 9 Claims. (Cl. 200—50.)

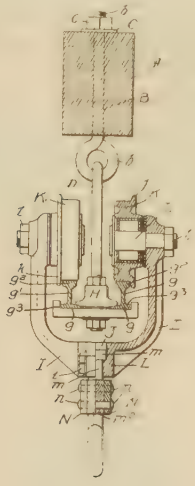


6. In a switch box, the combination with a switch, a door for the box and means for interlocking the door with the switch to preclude opening movement of the door while the switch is closed, of a key-actuated member preventing movement of the interlocking means.

1,420,112. SUSPENDED TWO-RAIL TRACK. NIC KRUMP, Chicago, Ill. Filed Dec. 16, 1920. Serial No. 431,172. 2 Claims. (Cl. 104—107.)

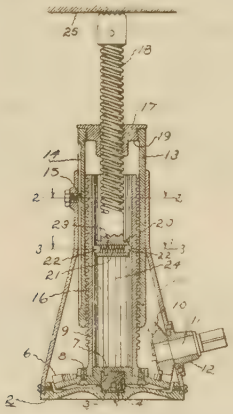
1. In a suspended two rail track, an inverted U-shaped bolt provided with screw threads on the ends thereof, and a rail chair, in combination with rails resting

on said chair, a locking member on the bases of said rails, said chair and said locking member respectively provided with apertures corresponding in diameter with the diameter of said ends of said U shaped bolt, and nuts



fitting on and engaging with said screw threads, the lower ones of said nuts adapted to be forced upward against the under side of said chair and the upper ones adapted to be forced downward on to the upper side of said locking member.

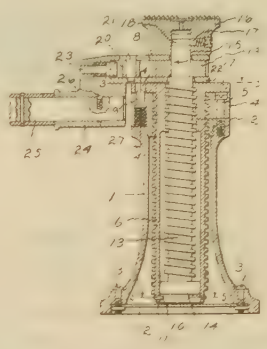
1,420,113. JACK. GEORGE F. KUEHN, Springfield, and LEON W. ROSENTHAL, Longmeadow, Mass.; said Kuehn assignor to said Rosenthal. Filed Aug. 26, 1920. Serial No. 406,124. 23 Claims. (Cl. 254—102.)



1. In a jack, two cooperative members longitudinally movable relatively to each other, and a load-engaging member carried by one of the cooperative members and having a yielding driving connection constructed and arranged to produce longitudinal movement relatively thereto when it is disengaged from the load and fixity therewith when it is engaged with the load.

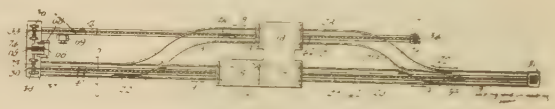
1,420,114. JACK. GEORGE F. KUEHN, Springfield, Mass., assignor to Leon W. Rosenthal, Springfield, Mass. Filed Jan. 5, 1921. Serial No. 435,246. 10 Claims. (Cl. 254—102.)

1. In a jack, a housing, an outer spindle longitudinally movable in said housing, an inner spindle in screw-threaded engagement with said outer spindle, means for limiting the outward movement of said inner spindle in said outer



spindle, means for limiting the outward movement of said outer spindle in said housing, one of said means embodying a spring, and means for rotating said inner spindle.

1,420,115. CONVEYING APPARATUS FOR ANNEALING FURNACES AND THE LIKE. GUSTAV W. LANGE and GUSTAV M. LANGE, Buffalo, N. Y., assignors to The Fowler and Union Horse Nail Company (Inc.), Tonawanda, N. Y., a Corporation of Connecticut. Filed Sept. 15, 1921. Serial No. 500,927. 10 Claims. (Cl. 104—172.)



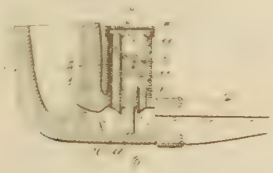
1. In a conveying apparatus of the character described, the combination of a track, cars movable on said track, means for propelling the cars along said track, releasable coupling members on said cars arranged for connection with said propelling means, and means along said track for automatically releasing said coupling members from said propelling means, said releasing means being located in the path of movement of the coupling members to be directly engaged thereby.

1,420,116. WRENCH. HARVEY E. LIGHTNER, Tecumseh, Okla. Filed Sept. 21, 1921. Serial No. 502,289. 2 Claims. (Cl. 81—91.)

1. A wrench of the character described comprising primary and secondary gripping jaws, a handle bar, one end

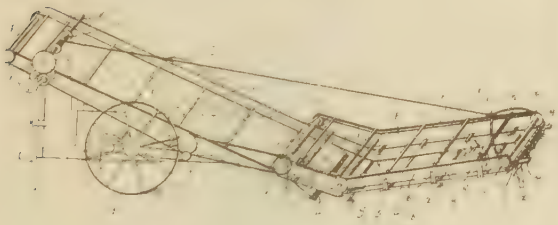
of the handle bar being bifurcated to provide opposite fingers, a bolt supported by the fingers, the primary jaw being provided with suspension arms swung from the said bolt, a pivot member extending transversely across the space between the said suspension arms, the secondary jaw being pivotally mounted on the bolt between the suspension arms, a lever attached to the secondary jaw, and a link carried by the handle bar and slidably engaged with the said lever whereby swinging movement of the lever will occur when the handle bar is swung on the uppermost pivot bolt.

1,420,117. TOBACCO PIPE. JULIUS C. LUEDKE, Sioux City, Iowa, assignor of one-tenth to James Dever, Sioux City, Iowa. Filed Oct. 8, 1920. Serial No. 415,686. 1 Claim. (Cl. 131—12.)



As a new article, an attachment for pipes comprising in combination with a pipe bowl stem having a pair of apertures disposed lengthwise thereof; a tubular body having a closed bottom shaped for snugly seating closely around the pipe bowl stem, a closure cap for the said body, a pair of tubes fixedly held in and projected through the bottom of the body, both tubes extending a uniform distance below the body bottom and adapted for being projected, smoke-tight, through the apertures in the bowl stem and which constitute the means for attaching the said attachment to the bowl stem, a plug insertable into the open end of the bowl between the two apertures to form a stop for directing the smoke through one tube into the tubular body and then back through the other tube into the pipe stem, the smoke intake tube being extended to near the top of the tubular body and the smoke exit tube having its inlet end just above the top of the tubular body bottom, the said tubular body being adapted for receiving substance for absorbing the moisture of the smoke as it passes down through the tubular body whereby to cool and trap the condensed smoke before it passes back into the pipe stem.

1,420,118. MANURE LOADER. BERT A. MCALLISTER, Wadsworth, Ohio. Filed Apr. 22, 1921. Serial No. 463,611. 3 Claims. (Cl. 198—8.)

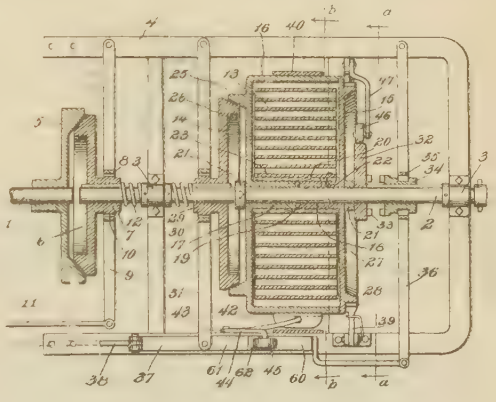


1. In a device of the character described, the combination with an elevator platform, and elevator mechanism operable thereon, of a manure gathering platform hinged to the lower end of the elevator platform, a manure gathering mechanism adapted to travel endwise rearwardly underneath the manure gathering platform to the adjacent end of the elevator platform, longitudinal guideways underneath the manure gathering platform along the sides thereof, respectively, a series of cross-rods having end projections fitted to travel in said guideways, respectively underneath said platform, in the direction of the elevator platform, longitudinal rails along the under surface of the manure gathering platform adjacent to the guideways respectively, a series of teeth or prongs pivotally mounted on the cross-rods, respectively, tail pieces projecting rearwardly from the prongs travelling underneath said rails, respectively, said rails terminating at or near the junction of said platforms, said cross-rods mounted on endless belting adapted to travel over and under said platform, and means for propelling said travelling mechanisms simultaneously, substantially as set forth, and for the purpose specified.

1,420,119. OIL-TEST-COCK-OPERATING MEANS FOR FORD CARS. ROBERT D. MCBRIAN, Ripon, Calif. Filed Apr. 23, 1921. Serial No. 463,896. 2 Claims. (Cl. 137—139.)

1. A holding means for the operating rod of a pet cock comprising a spring arm fixed on the outer end of the rod, said arm forming a handle whereby the rod is turned and a grooved plate fixed with respect to the cock and rod, the groove in said plate being adapted to receive the outer end of the arm when the pet cock is closed.

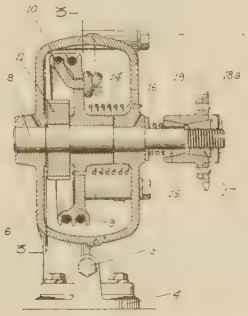
1,420,120. MAINSPRING-WINDING MECHANISM FOR MOTOR STARTERS. IRVIN J. MAHA, Sleepy Eye, Minn. Filed Apr. 15, 1920. Serial No. 374,156. 6 Claims. (Cl. 185—41.)



6. In a device of the class described, an engine shaft, a starter shaft adapted to be connected and disconnected to and from said engine shaft, a starting motor on said starter shaft, a coiled power spring for said starting motor, means for utilizing the power from said power spring for engine starting purposes, pawl and ratchet means for rewinding said power spring after the same has been uncoiled, a cam loosely mounted on said starter shaft, a clutch mechanism for connecting and disconnecting said

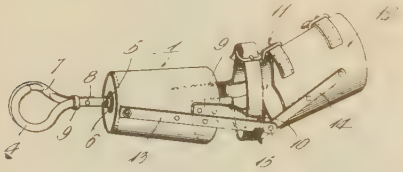
cam to and from said starter shaft, a bell crank lever, a roller carried on one arm of said bell crank lever and disposed in contact with the periphery of said cam, a rod engaged at one end by the other arm of said bell crank lever and carrying the pawl at its other end, and a coiled spring on said rod and adapted to be alternately expanded and contracted during the operation of said bell crank lever for the actuation of said pawl with the ratchet, said pawl and ratchet means being rendered inoperative when said power spring has been rewound to a maximum degree.

1,420,121. SELF-STARTER. HENRY MALLARD and HAROLD C. WHITE, Stockton, Calif., assignors, by direct and mesne assignments, of one-fourth to said Henry Mallard and one-fourth to Frank A. Guernsey, Stockton, Calif., and one-half to Edward S. Munford, J. L. Craig, and W. Sam Clark, all of Stockton, Calif. Filed Feb. 12, 1921. Serial No. 444,391. 2 Claims. (Cl. 74—55.)



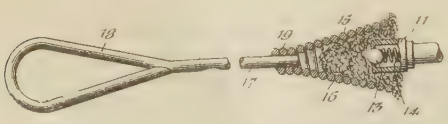
1. A slip-coupling device for gas engine starters comprising a shaft rotatable at the will of an operator, a pair of opposed taper sleeves mounted on the shaft to turn therewith, one of said sleeves being slidable thereon while the other is arranged for positive longitudinal adjustment on the shaft, a driven member bored to fit the sleeves mounted thereon and frictionally engaged thereby, and spring means acting to force the slidable sleeve toward the other sleeve.

1,420,122. ARTIFICIAL ARM AND HAND. AUGUSTE MANTEL, Taylorville, Ill. Filed Jan. 16, 1922. Serial No. 529,722. 3 Claims. (Cl. 3—12.)



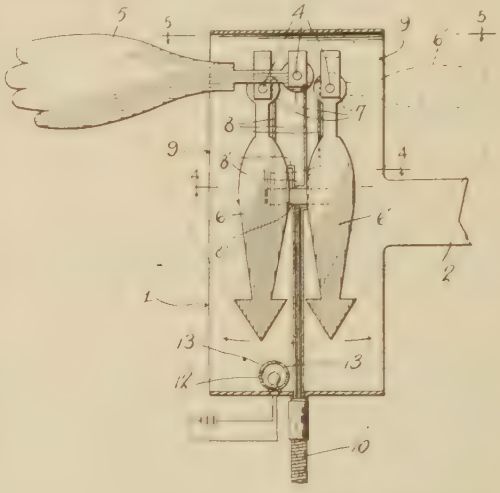
1. An artificial arm and hand including a pair of hooks having their hooked ends overlapped to form a closed ring and having their shanks pivoted together between their ends, and a sliding ring surrounding said shanks to hold them together.

1,420,123. CLEANING IMPLEMENT FOR LUBRICATING NIPPLES. CHARLES W. MANZEL, Buffalo, N. Y. Filed Sept. 13, 1920, Serial No. 410,050. Renewed Nov. 18, 1921. Serial No. 516,248. 3 Claims. (Cl. 15—210.)



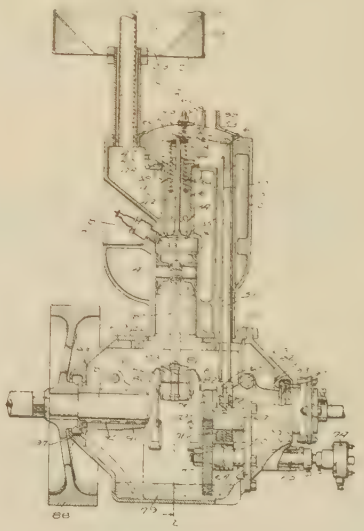
1. A cleaning implement of the character described, comprising a flexible, laterally yielding socket of sufficient internal diameter to pass over a lubricating nipple and adapted to receive a plug of cleaning material, and a handle-rod arranged in axial alinement with said socket and extending from the rear end thereof.

1,420,124. TRAFFIC SIGNAL. EDWARD C. MARSHALL, Lynn, Mass. Filed Dec. 10, 1921. Serial No. 521,323. 2 Claims. (Cl. 116—53.)



1. A device of the character described comprising a casing having its sides open, a U-shaped bracket straddling the opening in one side of the casing and connected thereto, a clamp on the free end of the bracket, a set of arms pivotally supported on one wall of the casing, connections engaging the arms and extending beyond the casing, operating means on the extended ends of the connections, and a lamp secured to the lower part of the casing and having diagonally disposed windows therein directed toward the extended arms.

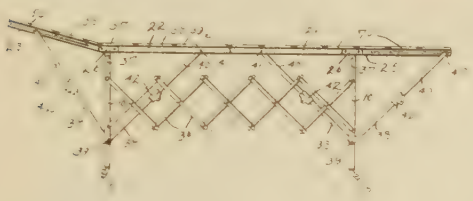
1,420,125. ENGINE LUBRICATOR. SCOTT J. MATTHEWS, Port Clinton, Ohio. Filed Sept. 12, 1917, Serial No. 190,906. Renewed Nov. 12, 1921. Serial No. 514,830. 4 Claims. (Cl. 184—11.)



4. In an engine, a plurality of moving parts, a pair of worm gear wheels meshing in proximity to the parts, the worm gear wheels having teeth located at an angle

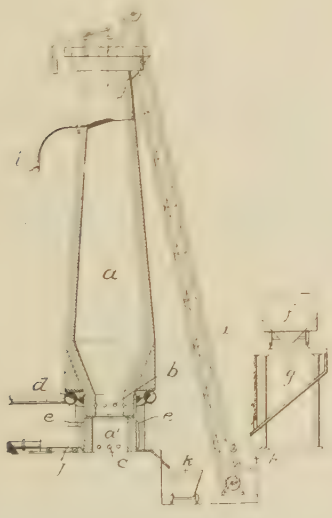
to the axes of rotation, the axes of rotation located in parallel relation and the following corners of the teeth of the spiral gears located in proximity to and on that side of the spiral gears on which the said moving parts are located, a container for oil, one of the gear wheels dipping below the surface of the oil whereby a continuous stream of oil will be thrown upon the parts.

1,420,126. COLLAPSIBLE TABLE AND CASE. CHARLES E. MORFOOT, Nevada, Iowa. Filed June 7, 1921. Serial No. 475,627. 4 Claims. (Cl. 45—116.)



1. In a device of the class described, a collapsible frame, comprising spaced side members, each comprising a plurality of elements, means for detachably connecting the elements of each side member rigidly together, legs pivoted to said side members, lazy tongs devices for connecting the legs on the opposite sides of the device, means for bracing the respective legs to the respective sides, said frame being designed to be collapsed into a small space and a top made of sections hinged on transverse lines and adapted to be folded for forming a case for receiving the frame, means for fastening two sections of the top together for preventing the opening up of the top when it forms a case, and a handle on said top, whereby the entire package may be carried when the collapsed frame is received in the top as a case.

1,420,127. PROCESS OF TREATING ORE TO PRODUCE PURE IRON. ARTHUR J. MOXHAM, New York, N. Y. Filed Jan. 8, 1919. Serial No. 270,121. 24 Claims. (Cl. 204—57.)



1. The process of extracting iron from its ore, which comprises reducing the oxid of iron from the ore and purifying the iron by electrolysis while the reduced material is in the form of fine particles held in good conductive contact with each other.

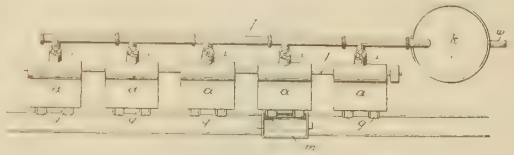
1,420,128. PROCESS OF EXTRACTING IRON FROM ITS ORES. ARTHUR J. MOXHAM, New York, N. Y. Filed Apr. 5, 1919. Serial No. 287,861. 14 Claims. (Cl. 204—15.)

1. The process of extracting iron from an iron solution which comprises subjecting the same to electrolysis to effect the separation of the iron, and causing the acid set free by such separation to combine with a base other than the iron, thereby neutralizing the same and preventing the re-dissolution of the iron.

1,420,129. PROCESS OF EXTRACTING IRON FROM ITS ORES. ARTHUR J. MOXHAM, New York, N. Y. Original application filed Apr. 5, 1919, Serial No. 287,861. Divided and this application filed Apr. 5, 1919. Serial No. 287,862. 8 Claims. (Cl. 204—15.)

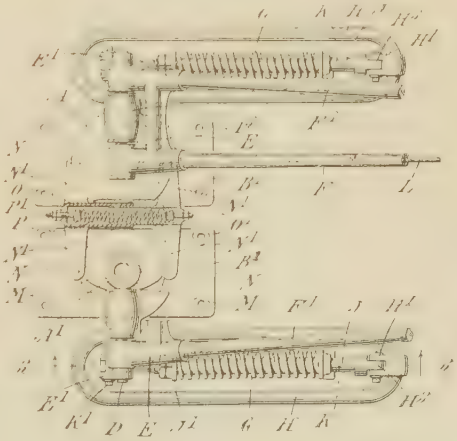
1. The process of extracting iron from its ore which comprises dissolving out the iron with hydrochloric acid, adding sulfuric acid to set free the hydrochloric acid so combined with the iron and form iron sulfate in such manner that the hydrochloric acid set free is adapted for reuse, and separating the iron from the iron sulfate by electrolysis.

1,420,130. PROCESS OF EXTRACTING METALS FROM THEIR ORES. ARTHUR J. MOXHAM, Great Neck, N. Y. Filed Nov. 2, 1918, Serial No. 260,787. Renewed Dec. 13, 1921. Serial No. 522,146. 10 Claims. (Cl. 204—15.)



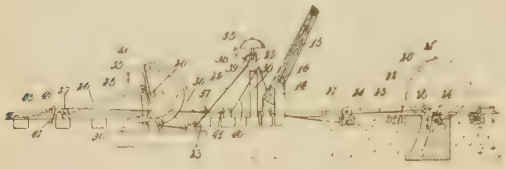
1. The process of extracting iron from its ores which comprises subjecting the ore to the action of a solvent of the metallic constituent, separating the solution from the gangue, and separating the pure metal from the solution by electrolysis.

1,420,131. SOCKET OR BASE FOR TROLLEY POLES FOR ELECTRICALLY-PROPELLED VEHICLES. EDWARD MAY MUNRO, London, England. Filed Feb. 16, 1922. Serial No. 537,048. 4 Claims. (Cl. 191—68.)



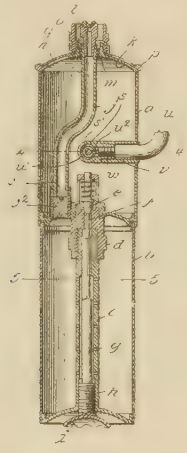
1. A trolley-pole base for an electrically propelled vehicle comprising two rotatable tables, a trolley-pole socket pivotally mounted on each of such tables, and a spring acting on each trolley-pole socket to elevate it, such spring being disposed at the side of each pole socket remote from the other pole socket.

1,420,132. AUTOMATICALLY-OPERATED RAILROAD GATE. JOSEPH NÉMETY, Trenton, N. J. Filed Dec. 30, 1921. Serial No. 526,008. 2 Claims. (Cl. 246—294.)



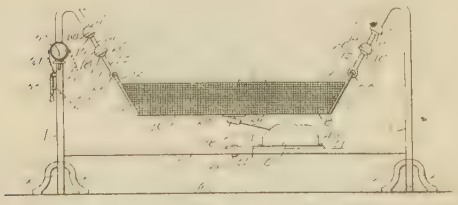
2. An automatically operated railroad gate comprising a hinged gate bar, a pair of ropes connected to said bar and leading in opposite directions therefrom, drums on which said ropes wind, a pair of hinged arms, and operative connections between said arms and drums whereby the arms are operated inversely in unison, said connections including gear segments fixed on said arms, a pair of shafts extending transversely of the track, gear pinions on said shafts meshing with said gear segments, and gear and pinion connections between said shafts and drums.

1,420,133. ACETYLENE MINER'S LAMP. CARL HENRY NEUSIUS, Baker, Oreg. Filed Nov. 30, 1921. Serial No. 518,838. 9 Claims. (Cl. 240—1.)



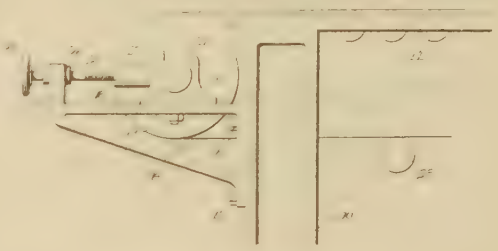
3. An acetylene generator and lamp having a burner at its upper end and a supporting tube extending transversely entirely through the water-chamber of its body at a point above the center of gravity and below its top, and a skewer-like support adapted to extend horizontally and rotatively through said tube so as to thereby ensure a normal upright position of the lamp on said skewer.

1,420,134. CRADLE. HERTHA JOAN NISLE, Chicago, Ill. Filed Sept. 12, 1921. Serial No. 500,065. 3 Claims. (Cl. 5—57.)



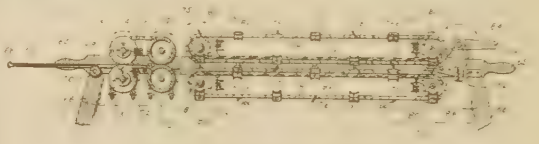
1. A device of the character described comprising a receptacle supported for oscillation in more than one plane, a mechanism having a reciprocating pitman, said pitman being arranged to engage said receptacle to oscillate the latter, and a base for supporting said mechanism, said base adapted to be moved to vary the direction of oscillation of said receptacle.

1,420,135. PAPER MACHINE. JAMES O'HARA, Lebanon, Oreg. Filed Oct. 3, 1919. Serial No. 328,131. 5 Claims. (Cl. 92—44.)



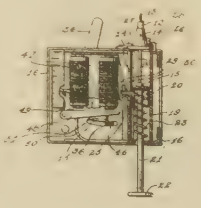
1. In a paper making machine the combination with a frame, of a table supported thereby, a wire passing over said table, a breast roll supported by said frame at the end of the table around which said wire passes and means for adjustably moving said breast roll longitudinally of the machine to different adjusted positions as the sole means to stretch or put tension on said wire.

1,420,136. FIBROUS PLANT DECORTICATING MACHINE. FRANK O'NEILL, Jr., Philadelphia, Pa. Filed Apr. 18, 1918. Serial No. 229,358. 11 Claims. (Cl. 19—20.)



1. A machine of the class described having decorticating devices comprising means for subjecting the plants alternately to a combined bending and scraping action, said means comprising two series of blades and members with blade opposing surfaces, the blades and members alternating in succession, means for moving said blades and members lengthwise of the plants, and feed rolls having a relatively slower motion than that of said blades and members.

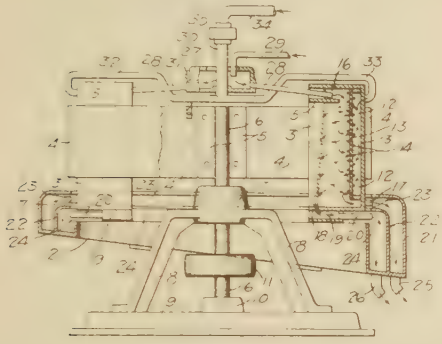
1,420,137. DEVICE FOR OPERATING CAMERA SHUTTERS. BENJAMIN L. PARKER, Moscow, Iowa. Filed June 15, 1921. Serial No. 477,805. 5 Claims. (Cl. 74—93.)



1. A shutter operating mechanism comprising a casing, a cylinder in said casing having one end open, means for locking the finger piece of a shutter control rod adjacent to said opening with the control button within said cylinder, a spring actuated plunger slidably mounted within said casing designed to operate said button, a catch device for locking said plunger in an operative

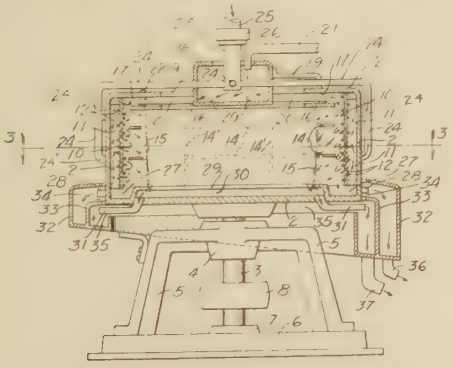
position, a spring actuated mechanism within said casing for releasing said catch, means for locking said spring actuated mechanism in a set position, and magnetic means for controlling the last said means.

1,420,138. PROCESS OF SEPARATING MIXED MINERAL PARTICLES OF DIFFERENT DEGREES OF SPECIFIC GRAVITY. WILBUR H. PECK, Los Angeles, Calif. Filed July 20, 1921. Serial No. 486,237. 3 Claims. (Cl. 83—85.)



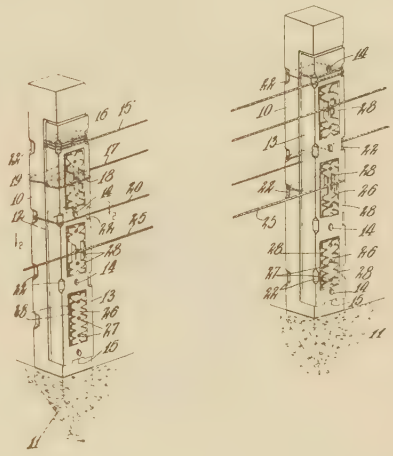
1. The process of differentially separating substances of different degrees of specific gravity which are normally floatable by aerated emulsion of water, oil and reagents, which consists of subjecting such materials to floating action of such emulsion, and at the same time, to the action of centrifugal force of sufficient intensity to, in effect, accentuate the specific gravity of the heavier of such particles beyond the floating energy of the emulsion, yet maintaining the resistance of the lighter particles to such force within the floating energy of the emulsion, whereby the heavier of such particles are precipitated through the emulsion, and the lighter particles are floated by the emulsion, substantially as described.

1,420,139. DIFFERENTIAL FLOTATION SEPARATOR. WILBUR H. PECK, Los Angeles, Calif. Filed July 20, 1921. Serial No. 486,238. 4 Claims. (Cl. 83—85.)



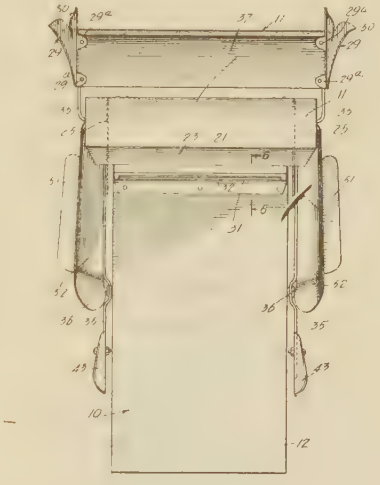
1. In a differential flotation separator, a rotatable vessel adapted to contain a liquid flotation medium during operation and to maintain such medium in position with a substantially unobstructed flotation surface facing in direction of the axis of rotation, and to serve as a cell in differential separation of normally flotable mineral particles of different degrees of specific gravity through simultaneous energy of the flotation medium and centrifugal energy on said particles, operating in diametrically opposing lines, in combination with rotatable means adapted to supply pneumatic agitating currents from the peripheral bottom of said cell and means adapted to support and rotate the vessel, substantially as described.

1,420,140. FENCEPOST. ANDREW PELESKEY, Martins Ferry, Ohio. Filed June 3, 1921. Serial No. 474,843. 2 Claims. (Cl. 256—52.)



1. In a fence, a post, a flat plate secured to the face of said post, and a wire extending across said plate in contact therewith, said plate having its side edges notched to form a plurality of ears arranged in pairs on opposite sides thereof and bent outwardly from the body of the plate to receive the wire between the respective ears of each pair and prevent vertical displacement thereof.

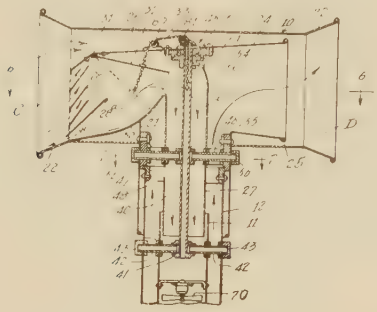
1,420,141. FLUE CAP. JOHN K. PENNINGTON, Los Angeles, Calif. Filed Mar. 29, 1920. Serial No. 369,670. 9 Claims. (Cl. 98—6.)



3. The combination with a flue, of an inverted V-shaped hood, having end walls, pivotally mounted above the top of the flue, and adapted to oscillate about a horizontal axis to cover and uncover opposite sides of the flue, the angle between the sides of the hood being such that when one side is in covering position the other side will extend in a plane substantially parallel with the horizontal plane of the vertex, wind pressure actuated means adapted to tilt the hood to cover the side to windward, said means comprising levers pivotally mounted on the flue and operatively connected to the end walls of the hood at points intermediate its pivotal points and the pivotal points of the levers, and wings extending longitudinally between said levers above and spaced from the hood, said

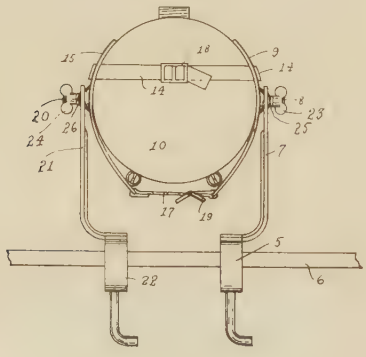
wings being concave to deflect the air currents down on top of the hood through the said space and over the open side of the flue, and outwardly extending wings on the levers above their pivotal points.

1,420,142. VENTILATOR CAP. JOHN K. PENNINGTON, Los Angeles, Calif. Filed June 16, 1920. Serial No. 389,396. 10 Claims. (Cl. 98—9.)



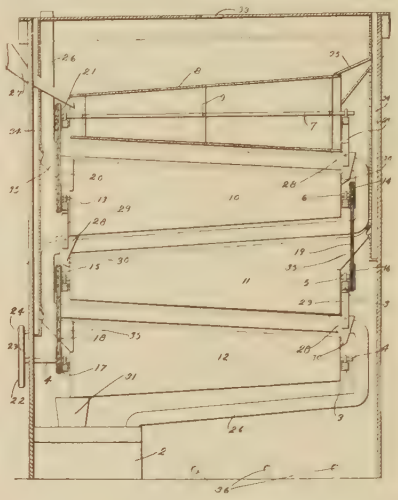
7. A cap of the character described comprising, a horizontally disposed open ended body, a vertically disposed flue portion in connection with the central portion of the body, an outlet flue arranged in the body to extend from the vertical flue to the rear end of the body, said outlet flue being open at the rear of the body and being shaped to diverge toward its open end to form a restricted portion in the body at its rear end, an inlet flue arranged in the body to extend from the front end of the body to and downwardly through the vertical flue, said inlet flue being open at the front of the body and arranged to extend upwardly and inwardly in the body before extending downwardly through the vertical flue, means at the open end of the inlet flue to allow passage of air into the flue and prevent passage of water, or the like, into the flue, control means in connection with the inlet flue, and means for rotatably mounting the cap over two vertically disposed ventilating flues arranged one within the other so that the vertical flue portion connects with the outer ventilating flue and so that the inlet flue connects with the inner ventilating flue.

1,420,143. CANTEEN HOLDER. ROBERT H. PRICHARD, Los Angeles, Calif. Filed Sept. 22, 1919. Serial No. 325,574. 3 Claims. (Cl. 224—29.)



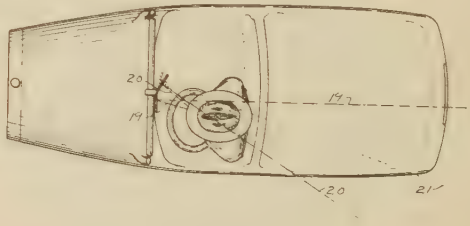
1. A canteen holder comprising separate standards having clamps secured to the bottoms thereof; frame members having apertures therein pivotally connected to the standards; and straps in said apertures adapted to secure said members upon a canteen.

1,420,144. DRIER. THOMAS P. PYE, Graton, Calif. Filed Aug. 19, 1920. Serial No. 404,523. 1 Claim. (Cl. 34—5.)



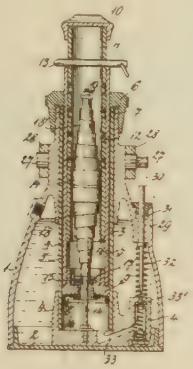
In a drier the combination with a heater, of superposed frusto-conical drums above the heater and revoluble about parallel axes, each drum being disposed oppositely to the next adjoining drum and being open at both ends, a heat conducting pipe extending from the heater and back and forth between the superposed drums, a housing completely enclosing the heater and drums, said pipe opening through the top of the housing, flues upon opposite walls of the housing and opening through the top thereof, means extending from the upper portions of the large open ends of the drums for conducting moisture laden air to the flues, and a delivering element for conducting material from the lower portion of the large end of each drum to the upper portion of the small end of the next adjoining drum thereunder, and means for rotating the drums simultaneously.

1,420,145. ADJUSTABLE AUTO MIRROR. FRANK W. REES, Seattle, Wash., assignor to Hugh H. Welbon, Seattle, Wash. Filed Oct. 4, 1921. Serial No. 505,222. 2 Claims. (Cl. 45—97.)



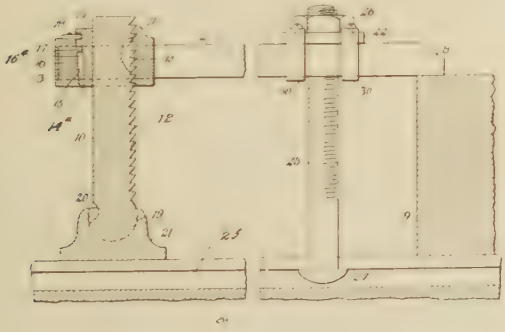
2. A device of the type described embodying two rectangular shaped glass mirrors; metal frames with their edges crimped around the mirrors to hold them; projections on the inner ends of the two frames having holes in them; a bolt passing through the holes in the projections having a separator on it between the projections and a thumb nut on it for holding the mirrors at any desired angle to each other; a U shaped bracket with a slot in its body and holes in its projected ends through which the above mentioned bolt also passes; two angular shaped clips pivotally connected together mounted on a screw with a thumb nut in the slot in the U shaped bracket at one end and attached by another screw with a thumb nut on it to the lower end of a hanger at the other; and a clip on the upper end of the hanger with a set screw in it for holding the device to the upper side of the windshield.

1,420,146. HYDRAULIC CARRIAGE-LIFTING JACK. HANS REHAK, Vienna, Austria. Filed Apr. 10, 1922. Serial No. 551,273. 6 Claims. (Cl. 138—9.)



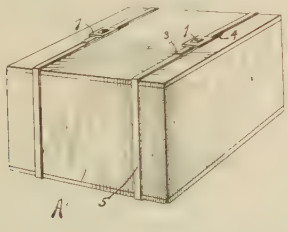
1. A carriage jack comprising a casing, a liquid receptacle in said casing, pumps in said casing, a hand lever for operating said pumps, a cylinder in said casing, a ram in said cylinder, springs opposing the outward movement of the ram and disposed within said ram, and a relief valve for said cylinder.

1,420,147. SELF-SUPPORTING CLAMP. CHARLES C. ROBERTS, Ansonia, Conn. Filed Oct. 21, 1919. Serial No. 332,331. 10 Claims. (Cl. 90—59.)



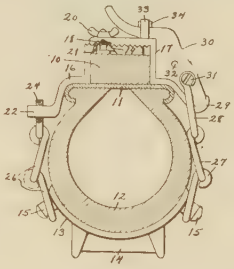
1. In a self supporting clamp, the combination of a post, a strap, and means adjustably mounting said strap upon said post including a pivot element for permitting transverse movement of said strap upon said post to position the same upon a piece of work.

1,420,148. STRAP AND FASTENER. GEORGE L. ROCK, Waukesha, Wis. Filed Nov. 19, 1920. Serial No. 425,250. 2 Claims. (Cl. 217—66.)



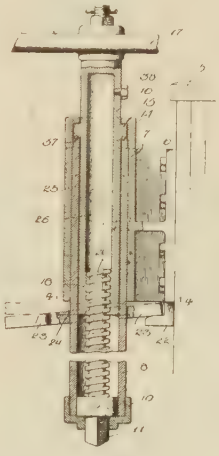
1. A bale strap and fastener comprising a metal ribbon having overlapping ends and a metal plate having three parallel slots, the overlapping ends of the ribbon extending through the outer slots and the metal of the overlapping ends of the ribbons being forced down into the central slot.

1,420,149. TRACTION AND ANTISKID DEVICE. JOHN ROWE, Casey, Iowa. Filed Sept. 23, 1920. Serial No. 412,269. 2 Claims. (Cl. 152—14.)



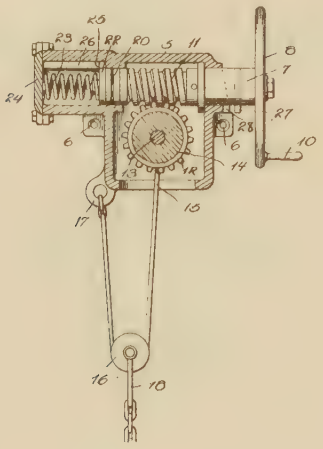
1. In a device of the class described, a pair of felloe plates each having a lateral portion adapted to engage the side of a felloe, each of said felloe plates being bent substantially at right angles between its ends to form transverse portions, said transverse portions adapted to overlap each other and together extend transversely across the radially inner face of the felloe, one of said plates being formed with a hole and the other being formed with a longitudinal slot, and a bolt extending through said hole and slot and adapted to secure said plates together in such manner that their lateral portions will substantially engage the opposite sides of the felloe, the contacting faces of the transverse portions of said plates being serrated for interengagement with each other.

1,420,150. HAND BRAKE. WILLIAM H. SAUVAGE, Flushing, N. Y. Filed May 12, 1919. Serial No. 296,555. 9 Claims. (Cl. 74—120.)



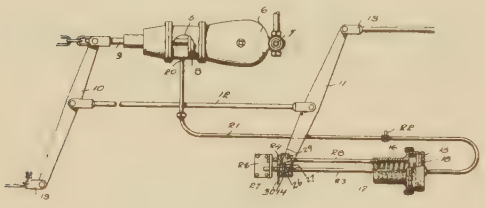
8. In a mechanism of the character described, in combination, a relatively fixed support adapted to be secured to a car body, a member mounted therein and capable of movement in a direction to apply the brakes, and a dog connecting with said member adapted to take up and hold the initial movement of said member required to take up the excess slack in the brake rigging.

1,420,151. HAND BRAKE. WILLIAM H. SAUVAGE, Flushing, N. Y. Filed Aug. 7, 1919. Serial No. 315,909. 14 Claims. (Cl. 74—120.)



2. In a hand brake, in combination, a shaft, a spiral winding drum geared thereto, and means adapted to prevent overload on said drum by locking said shaft against further rotation.

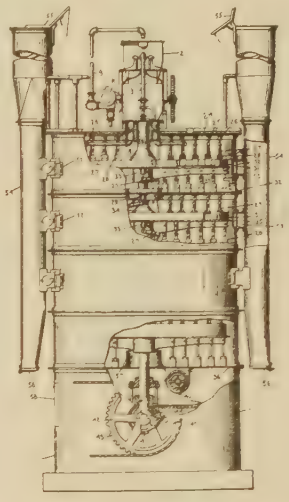
1,420,152. SLACK ADJUSTER. WILLIAM H. SAUVAGE, Flushing, N. Y., assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Filed June 27, 1919. Serial No. 307,125. 6 Claims. (Cl. 188—203.)



1. In an automatic slack adjuster, in combination, a power cylinder having a piston, an auxiliary cylinder having a piston communicating means therebetween whereby the second piston is actuated on excess travel of the first mentioned piston, and slack adjuster mechanism associated with said second mentioned piston, including a holding rod and a take up rod, and a member adapted to be moved by one rod in one direction and to be held against movement in the opposite direction by reason of its negagement with the other rod.

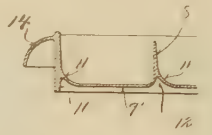
1,420,153. HYDRATION APPARATUS. JOHN C. SCHAFFER, Tiffin, Ohio, assignor to Schaffer Engineering & Equipment Co., Pittsburgh, Pa., a Corporation of Pennsylvania. Continuation in part of application Serial No. 83,241, filed Mar. 10, 1916. This application filed Mar. 26, 1917. Serial No. 157,300. 15 Claims. (Cl. 222—4.)

1. A lime hydration apparatus embodying a continuous uniform rate feed device, and means for slaking the lime including a housing having a feed receiving upper section and a water supply upon the lime in the housing upper section to cause slaking reaction with the lime in generating a moist atmosphere, said housing being closed as against vapor escape upward from said upper section for



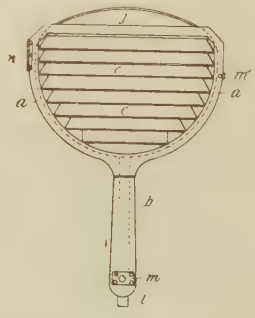
holding said atmosphere as a lime generated steam envelope for the lime.

1,420,154. TYPE CASE. RALPH I. SCHEUER, Two Rivers, Wis. Filed Nov. 22, 1920. Serial No. 425,774. 3 Claims. (Cl. 211—41.)



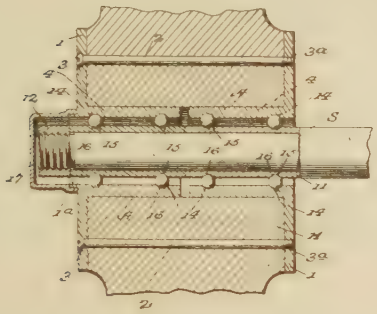
1. As a new article of manufacture, an all metal typecase cast in one piece comprising a partitioned rectangular tray having a thin solid bottom, upstanding front, rear and side walls, the same being of greater thickness than the bottom and projecting there-below to form a projecting support for said bottom, and intersecting longitudinal and transverse partition walls connecting the tray, and encasing walls forming type pockets, the walls of each pocket being mergently curved into the tray bottom to form an uninterrupted track for conveniently extracting type from said pockets.

1,420,155. FAN. JOHN ALEXANDER SHEARER, Millswood Estate, South Australia, Australia. Filed May 12, 1920. Serial No. 380,906. 9 Claims. (Cl. 230—33.)



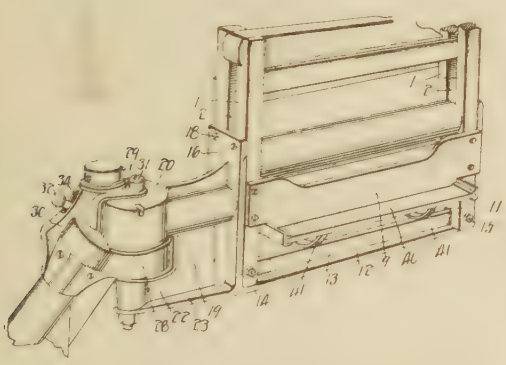
2. In an improved hygenic fan, a frame having a receptacle therein, louvers in the frame for deflecting the air current into the receptacle, and disinfecting means within the receptacle.

1,420,156. JOURNAL BOX. WILLIAM C. SKEELS, Oklahoma, Okla. Filed May 28, 1921. Serial No. 473,508. 6 Claims. (Cl. 301—3.)



1. A device as herein characterized and comprising a cylindrical box insertable within the hub of a wheel, said box divided longitudinally to form two separable sections, and means integrally associated with the abutting longitudinal edges of the sections to connect the sections and also to prevent longitudinal relative movement of the sections.

1,420,157. WRINGER SUPPORT. HERMAN A. SPERLICH, Highland Park, Mich., assignor to Crystal Washing Machine Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 21, 1918. Serial No. 223,732. Renewed May 3, 1921. Serial No. 466,529. 3 Claims. (Cl. 68—32.)



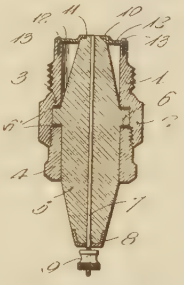
2. In combination, a wringer support having a supporting arm with an upstanding flange adapted to engage a wringer frame, a second upstanding flange adapted to engage said wringer frame, a web integral with said second flange divided at its outer edge forming spaced portions one of said portions being provided with a head, a supporting member disposed between said spaced portions pivotally carrying said support and cooperating with said head to provide a housing for wringer operating elements.

1,420,158. RESILIENT FILLER. JAMES FREDERICK STANFIELD, Troy, Ohio. Filed Aug. 12, 1920. Serial No. 403,091. 4 Claims. (Cl. 152—8.)

2. The combination with a tire casing, of a resilient reinforcement therefor comprising a series of transversely arranged arch shaped wires having formed therein a succession of oppositely disposed bights, with the bights of each member entering in spaced relation within the bights of the adjacent members, the ends of said arch shaped

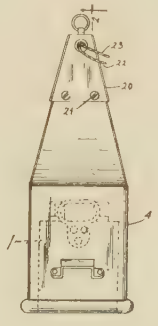
wires being interconnected one to another in predetermined spaced relation.

1,420,159. SPARK PLUG. ROBERT F. STEPHENSON, Augusta, Kans. Filed Apr. 16, 1920. Serial No. 374,439. 1 Claim. (Cl. 123—169.)



A spark plug comprising a body, a porcelain secured in said body and having a reduced end, an electrode extending through the porcelain and having its end terminating flush with the porcelain at the reduced end thereof, and a bridge having a central portion fitting upon the porcelain and provided with an opening receiving the reduced end thereof, and the outer face of the central portion of the bridge being flush with the end of the porcelain, arms extending from the central portion of the bridge and connected with the body of the plug at the end thereof.

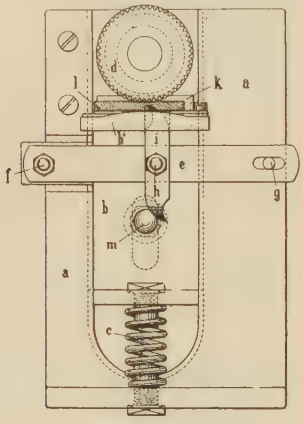
1,420,160. ELECTRIC HEATER. U D. STRAW, Goshen, Ind. Filed Sept. 13, 1920. Serial No. 410,034. 5 Claims. (Cl. 219—35.)



1. In a heater for the purpose specified the combination with a casing for inclosing the article to be heated, of an

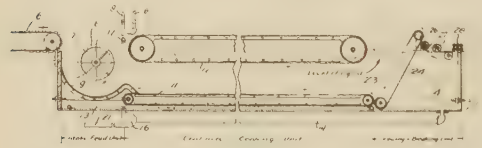
electric heater element extending into said casing and having binding posts on the outside thereof, a cover for said binding posts detachably secured to the casing, and an electric conductor carried by said detachable cover for connection to said binding posts.

1,420,161. APPARATUS FOR CHANNELING SOLE BLANKS. LUDWIG STREIBEL, Karlsruhe, Germany, assignor of one-half to Adam Ehresmann, Karlsruhe, Germany. Filed Aug. 26, 1921. Serial No. 495,555. 2 Claims. (Cl. 12—27.)



1. In an apparatus for channeling sole blanks in combination, a frame, a slide vertically movable on said frame, the top of said slide forming a sole support, a feed roller rotatably mounted above said sole support, means for rotating said feed roller, means pressing said slide with said sole support toward said feed roller, a knife for cutting the channel into the sole resting upon said sole support, and means carrying said knife and connected to said frame and to said slide so as to automatically adjust said knife in such a manner that the depth of the channel cut by said knife increases or decreases by an amount definitely proportional to any increase or decrease in the thickness of the sole, substantially as described.

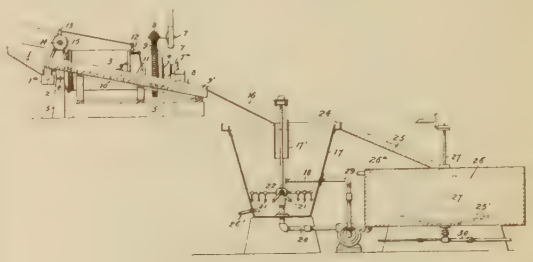
1,420,162. APPARATUS FOR FIBERIZING AND FELTING CEREAL STRAW. JUSTIN KAY TOLES, San Francisco, Calif. Filed July 8, 1919. Serial No. 309,374. 15 Claims. (Cl. 154—27.)



1. In an apparatus for fiberizing and felting cereal straw, means for separating the gummy substances from the fiber of the straw, means for crushing and breaking the fibers into relatively short lengths, means for felting the fibers into a sheet, and means for drying the sheet.

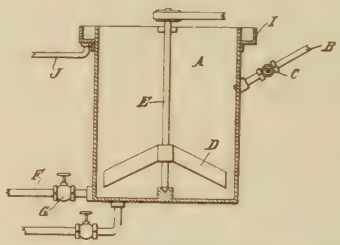
1,420,163. METHOD OF CLEANING COAL. WALTER E. TRENT, Washington, D. C., assignor to Trent Process Corporation, Wilmington, Del., a Corporation of Delaware. Filed July 9, 1919. Serial No. 309,642. 4 Claims. (Cl. 83—84.)

1. A process of purifying coal, which comprises reducing coal to an impalpable powder to physically detach substantial proportions of the non-carbonaceous content of the coal from carbonaceous fuel matter, and in then separating de-



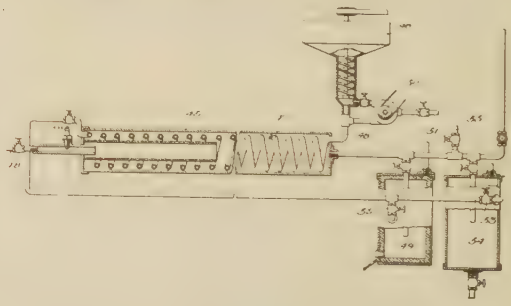
tached non-carbonaceous matter from the fine carbonaceous fuel.

1,420,164. PROCESS OF PURIFYING MATERIALS. WALTER E. TRENT, Washington, D. C., assignor to Trent Process Corporation, Washington, D. C., a Corporation of Delaware. Filed Mar. 6, 1920. Serial No. 363,797. 20 Claims. (Cl. 83—85.)



1. A purifying process which consists in mixing fine carbonaceous fuel and a liquid with an agent having a selective affinity for said fine fuel, and in agitating said substances to form a fuel amalgam and substantially excluding the liquid originally associated with said carbonaceous fuel.

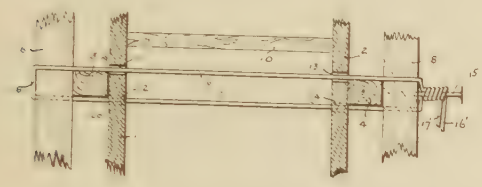
1,420,165. PROCESS OF PURIFYING MATERIALS. WALTER E. TRENT, Washington, D. C., assignor to Trent Process Corporation, Washington, D. C., a Corporation of Delaware. Filed Feb. 25, 1920. Serial No. 361,230. 4 Claims. (Cl. 44—1.)



1. The process of treating coal containing a carbonaceous fuel content and non-carbonaceous matter, which consists in reducing the coal to a degree of fineness sufficient to detach a substantial portion of the non-carbonaceous matter from the carbonaceous fuel content, in treating the finely divided materials, while wet with an aqueous material, with an agent having an affinity for the carbonaceous fuel material, said agent being of sufficient quantity to form with the carbonaceous fuel matter a non-fluid amalgam consisting principally of the agent and the carbonaceous fuel matter, in separating the amalgam from aqueous material and non-carbonaceous

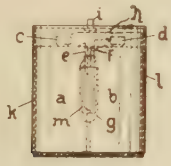
matter originally associated with the coal, and in subjecting the amalgam to distillation to remove the agent and the by-product oils of the carbonaceous fuel, and in collecting the carbonized residue.

1,420,166. METHOD AND MEANS FOR CONSTRUCTING FORMS FOR CONCRETE. ROBERT TROST, San Francisco, Calif. Filed June 8, 1921. Serial No. 475,886. 4 Claims. (Cl. 25—131.)



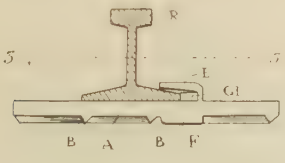
1. The method of constructing forms for reinforcing concrete comprising a plurality of sides, which consists of first setting the built up sides in position and then passing holding wires of U shape having two straight legs through the said sides and twisting the parallel ends of said wire around a member adapted to rotate and then clamping the two ends simultaneously and rotating them and the said member to wind the wire and cinch the sides in assembled position.

1,420,167. ELECTRIC POCKET LAMP. AGNES VOGT, geb. Szubert, Berlin, Germany, assignor to Calvanophorenwerke (System Vogt), S. Szubert, Commandit-Gesellschaft, Berlin, Germany. Filed Oct. 27, 1919. Serial No. 333,779. 2 Claims. (Cl. 240—8.5.)



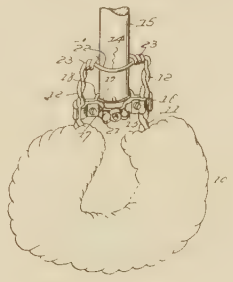
1. A pocket lamp comprising electric cells, a glow-lamp placed in a space between the said cells, a switch, electrical connections establishing a circuit including the cells, the glowlamp, and the switch, and a casing consisting of two hollow halves one of which is slipped over the other and both having openings that register and form an aperture for the beams of the glowlamp when the hollow halves are telescoped together.

1,420,168. RAIL TIE PLATE. JAMES T. WALKER, Lafollette, Tenn. Filed Jan. 3, 1922. Serial No. 526,682. 2 Claims. (Cl. 238—298.)



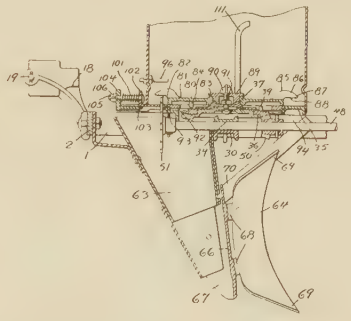
1. The combination of a tie plate having a tongue adapted to receive the outer edge of the foot of a track rail and having spike holes located far enough away from the space on which the foot of the rail is to be seated to avoid engagement of the rail by spikes set in said holes and said spike holes being of size to receive ordinary spikes and said plate having an enlongated spike hole reaching to the position to be occupied by the inner edge of the foot of the rail, and a filling or wearing member adjoining said tongue in position to receive the outer edge of the foot of the rail, substantially as described.

1,420,169. MOP. JAMES S. WELCH, Houston, Tex. Filed July 2, 1921. Serial No. 482,010. 6 Claims. (Cl. 15—229.)



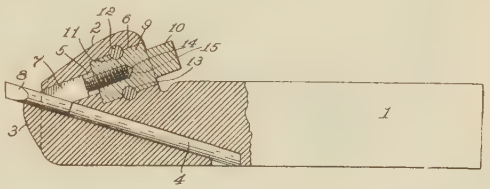
1. A mop having a head consisting of a looped holder formed of wire and supporting fibrous material, the said holder being extended beyond the fibrous material to constitute stems of which the terminal of each is engaged with an intermediate point of the other, those portions of the stems between the points of engagement forming the complemental sections of a handle receiving eye.

1,420,170. PLANTING MECHANISM. CHARLES E. WHITE and GUST CARLSON, Moline, Ill., assignors to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Mar. 22, 1918, Serial No. 224,058. Renewed Dec. 3, 1921. Serial No. 519,800. 18 Claims. (Cl. 221—138.)



8. In a planting mechanism of the class described, a seed receptacle, a base plate structure having for the downward passage of the seeds a vertical passageway, and a vertically disposed hook toothed wheel of a thickness dimension approximately equal to the thickness dimension of each of the seeds, and mounted on an axis below the passageway, and arranged to have its teeth successively travel vertically through said passageway.

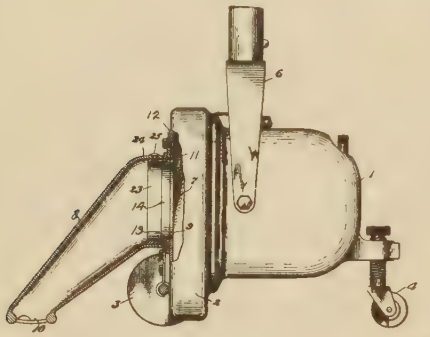
1,420,171. LATHE-TOOL HOLDER. WALTER O. WILLE, Waterloo, Iowa. Filed Feb. 19, 1921. Serial No. 446,378. 6 Claims. (Cl. 29—96.)



1. A lathe-tool holder, comprising in combination, a shank having a head with part thereof upwardly offset,

said head having bores positioned in V-shape to converge approximately at the working face of the head, with one bore opening at its opposite end at the offset part of said head, the other bore receiving a lathe-tool to project from said head, and an adjustable clamping-element movably mounted in said first-mentioned bore to compressively engage said tool while positioned at less than a right angle thereto in the second-mentioned bore.

1,420,172. VACUUM CLEANER. WILLIAM J. WISE and THOMAS O. ADAMS, New Philadelphia, Ohio, assignors to The Wise-McClung Manufacturing Company, New Philadelphia, Ohio, a Corporation of Ohio. Filed Aug. 5, 1921. Serial No. 489,949. 7 Claims. (Cl. 15—15.)



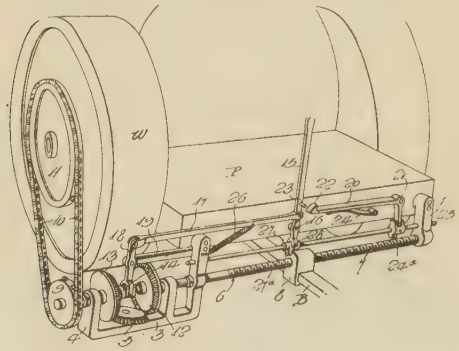
1. A suction sweeper including a fan casing having an inlet opening, a slotted flange at one side of said opening, said casing having a recess at the opposite side of the inlet opening, a nozzle arranged to register with said inlet opening, a lug upon the nozzle arranged to engage the slotted flange, an inclined lug upon the nozzle arranged to be seated in the recess and a clamping lever upon the casing arranged to engage the inclined lug to lock the nozzle to the casing.

1,420,173. PAPER MATERIAL AND COMPOSITION FOR TREATING THE SAME. WILBUR L. WRIGHT, Fulton, N. Y. Filed May 17, 1920. Serial No. 382,145. 8 Claims. (Cl. 91—68.)

2. Paper material having a coating embodying casein and a preponderating percentage of sugar.

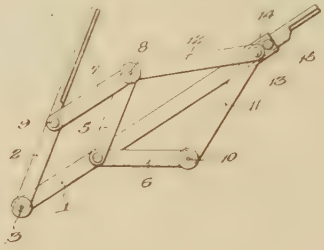
6. A grease proofing composition comprising casein, glycerine, and sugar in large proportion.

1,420,174. ATTACHMENT FOR TRACTORS. ERNEST G. WROUGHTON, Nelson, Nebr. Filed June 30, 1921. Serial No. 481,578. 9 Claims. (Cl. 280—33.2.)



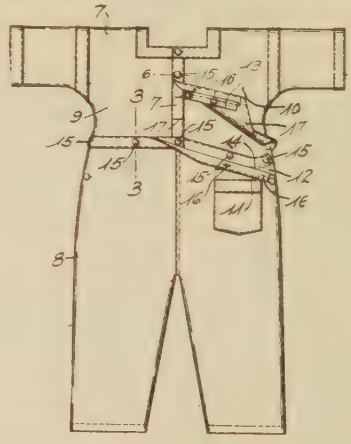
1. A device of the class described comprising a rotary shaft designed to be mounted on the rear end of a lead vehicle, a hitching device connected to and horizontally movable on said shaft, means on said shaft for rotating it in either a forward or rearward direction, a control lever for said means, and other means for automatically actuating said lever when the aforesaid device has moved a predetermined distance on the shaft and becomes engaged with said other means.

1,420,175. ANGLE-MEASURING APPARATUS. SEGUNDO PEREZ ALONSO, Habana, Cuba. Filed July 9, 1920. Serial No. 395,065. 1 Claim. (Cl. 33—98.)



In angle measuring apparatus, five links, four of which are pivoted to each other to form an equal sided parallelogram linkage, the fifth link being pivoted on the pivot of two adjacent links, one of said adjacent links having an extension, and means slidably and pivotally connected to said extension for maintaining the angle between said fifth link and the other adjacent link double the angle between the link having the extension and the link opposite said other adjacent link throughout all the adjustments of the apparatus.

1,420,176. CHILD'S GARMENT. SOLOMON BALLIN, New York, N. Y. Filed May 1, 1918. Serial No. 231,957. 3 Claims. (Cl. 2—144.)

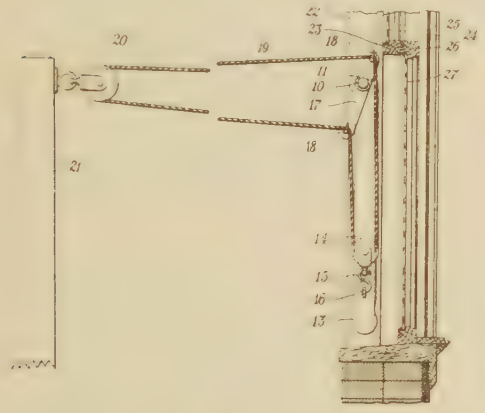


1. A combination garment comprising jacket and trousers members separated at the waistline, said trousers member embodying front and rear portions separated vertically at the sides thereof with the edge part of one of such portions overlapping the adjoining edge part of the other portion, said overlapping portion also overlapping the lower edge part of the jacket member and provided with a flap disposed in rear of such lower edge part of the jacket member, said flap being separated at its ends from the portion to which it is attached and extending in rear of the edge part of the overlapped portion aforesaid and fastenings secured to said rear flap securing said flap to the overlapping portion with said parts engaged therebetween.

1,420,177. CURTAIN FASTENER. CLARENCE A. BEEMER, Westfield, N. J. Filed Jan. 22, 1921. Serial No. 439,230. 9 Claims. (Cl. 24—224.)

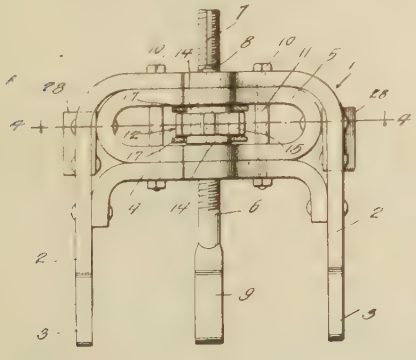
1. In combination, a locking member provided with a recess; a retaining headed stud having its shank receivable in said recess; and a yieldable means connected to the stud and engaging the locking member to yieldably hold the stud against accidental removaal from said recess.

1,420,178. CLOTHESLINE ATTACHMENT. WILLIAM BUDDE, Brooklyn, N. Y., assignor of one-half to George E. Pfeifer, Brooklyn, N. Y. Filed Apr. 19, 1921. Serial No. 462,663. 1 Claim. (Cl. 68—3.)



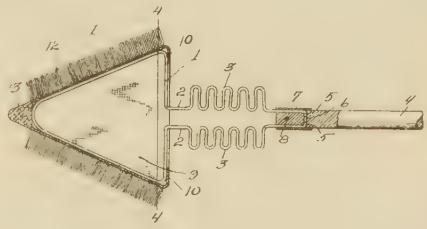
A supporting member capable of being attached outside of a window, a pivot carried by the supporting member extending inwardly of a window frame, an arm revoluble upon the pivot and capable of extension through the window and into a room, a pulley attached to the arm, a take-up member revoluble upon the pivot and extending on opposite sides thereof and means carried by the two extremities of the take-up member to engage a line passing over the pulley.

1,420,179. RAIL-BENDING DEVICE. KARL BYE and PHILIP WERLE, Butte, Mont. Filed May 9, 1921. Serial No. 467,950. 2 Claims. (Cl. 153—38.)



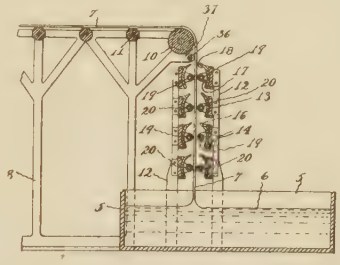
2. A device of the class described comprising a frame, a screw slidably mounted thereon, a ratchet nut threaded on the screw, a hand-lever fulcrumed on said nut, said lever having a curved slot therein and said slot having slightly enlarged portions near its ends, a double acting dog pivoted on the lever adjacent said slot, an arm carried by the dog, a guide pin on the outer end of the arm slidably received in said slot, and a separate and removable locking pin for insertion in one of the enlarged portions of the slot for holding the guide pin and arm at either end of the slot as and for the purpose described.

1,420,180. MOP. FREDERICK B. CASMIRE, Chanute, Kans. Filed Apr. 3, 1920. Serial No. 371,003. 1 Claim. (Cl. 15—229.)



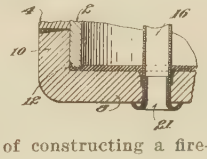
In a mop, a frame of resilient wire formed into a substantially triangular body having its end portions directed away from the body to provide means for attaching a handle, and a casing in which the body is fitted having a substantially triangular relatively thick front end portion, comprising laminations of fabric fastened together, the casing having a shag on opposite sides thereof, substantially as set forth.

1,420,181. AUTOMATIC ELECTRIC HEATING DEVICE FOR GLASS FURNACES. WALTER G. CLARK, New York, N. Y. Filed Mar. 29, 1920. Serial No. 369,697. 26 Claims. (Cl. 204—64.)



1. An electrically operated heating device consisting of a multiple of heating units arranged in close proximity to the sheet of glass between the tank and the first supporting roller on a continuous window glass making apparatus, together with a thermostat for automatically determining the amount of energy required in order to maintain the glass sheet at the proper degree of plasticity for successful operation, and means for removing and replacing the said heating elements without interrupting the operation of the glass-making apparatus.

1,420,182. STEAM BOILER AND METHOD OF MAKING THE SAME. WILLIAM E. CLEVELAND, Medford, Mass. Filed Sept. 27, 1919. Serial No. 327,006. 4 Claims. (Cl. 113—112.)

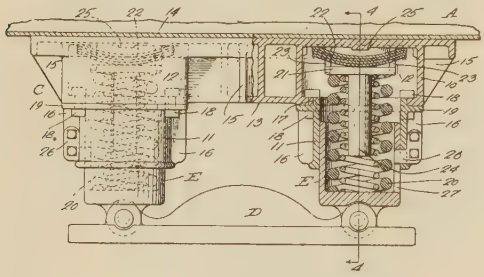


1. The method of constructing a fire-tube boiler which comprises forming a cylindrical shell, bevelling the outer

edge of one end of the shell, forming a transverse slot in said end of the shell, closing said end of the shell by means of a head comprising a plate having an annular flange engaging the cylindrical wall of the shell, forming a plurality of apertures in the head to receive the ends of the fire tubes, inserting one end of the fire tubes in the apertures, and applying brazing material to the inner surface of the head so that it will flow through said slot in the end of the shell and into the space between said bevelled outer edge of the end of the shell and the bottom head and flow about the tubes so as to seal the joints between the tubes and head.

2. A fire-tube boiler having, in combination, a cylindrical shell having the outer edge of one end thereof bevelled, a head closing said end of the shell comprising a plate having a plurality of apertures therein and having an annular flange engaging the cylindrical wall of the shell, fire-tubes having one end inserted in the apertures in the plate, and brazing material applied to the inner surface of the head and in the space between the bevelled edge of the shell and the head.

1,420,183. BUFFER FOR RAILWAY ROLLING STOCK. DONALD C. DAVIS, Buffalo, N. Y., assignor to Gould Coupler Company, New York, N. Y. Filed Aug. 22, 1921. Serial No. 494,032. 4 Claims. (Cl. 213—39.)

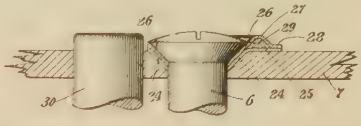


1. In a buffer for railway rolling stock, the combination of a housing adapted to be secured to and project outwardly from the end of the rolling stock, said housing comprising a transversely elongated main casting having spring chambers in its end portions in fixed positions relatively to one another, and separate hollow stem-guides which are separably secured to said main casting and form outward extensions of said spring chambers in predetermined positions relatively to each other, buffer stems arranged to slide inwardly and outwardly in said stem-guides, a buffer head carried by said stems, and springs arranged in said spring chambers and acting to yieldingly resist inward movement of said buffer head.

1,420,184. SELF-LUMINOUS WRITING INSTRUMENT. ALBERT V. T. DAY, New Rochelle, N. Y. Filed Sept. 25, 1918. Serial No. 255,556. 2 Claims. (Cl. 240—1.)

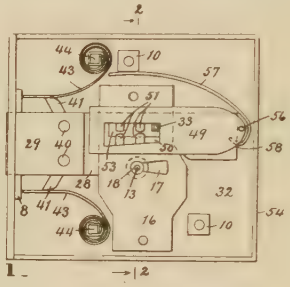
1. A self-luminous writing instrument comprising a marking device and a self-luminous body secured thereon at one side of the axis of the marking device and near its marking point, and a rotatable screen secured at one side of the self-luminous body.

1,420,185. SELF-LUMINOUS MARKER FOR SCREW HEADS AND NAIL HEADS. ALBERT V. T. DAY, New Rochelle, N. Y. Filed Sept. 24, 1918. Serial No. 255,558. 2 Claims. (Cl. 240—1.)



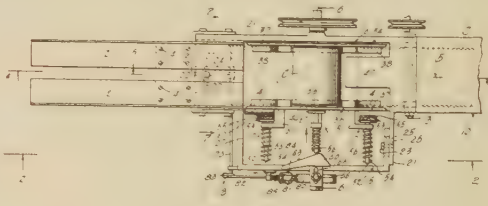
1. A self-luminous marker for a screw or nail or like object, comprising a base ring fitting under the head of the object and having a lateral extension, a transparent facing sheet secured over said lateral extension, and self-luminous material secured between said extension of the base ring and the said transparent sheet.

1,420,186. LOCK. RAPHAEL DE SEVO, East Longmeadow, Mass. Filed May 17, 1921. Serial No. 470,323. 10 Claims. (Cl. 70—14.)



1. The combination, in a lock, with a case provided with a fixed member, said case and member having key-holes therein, a key-operated bolt in said case on one side of said fixed member, and a spring-pressed and key-operated tumbler in said case on the other side of said member, said tumbler being adapted normally to block the movement of said bolt, of a key, and yielding means normally to close the key hole in said fixed member against the entrance of said key.

1,420,187. MARKING MACHINE. ERNEST DOUGLAS, Portersville, Calif. Filed Feb. 26, 1921. Serial No. 448,003. 5 Claims. (Cl. 101—44.)

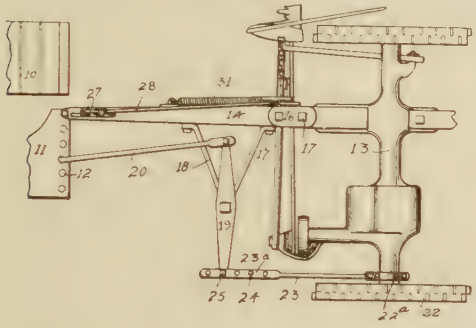


1. In a machine for marking cans or the like, a frame, a can carrier rotatably mounted in the frame to receive cans at one end of the frame and carry them to the other, a stamp carried by the carrier, a cam mounted on the frame to actuate the stamp to mark the cans while they are being carried by the carrier, an ink carrier, and a cam actuated roller adapted to receive ink from the ink carrier and deposit it on the stamp when the stamp is unactuated.

1,420,188. STEERING DEVICE FOR TRACTOR-DRAWN MACHINES. BENJAMIN DOUGLASS, Fulton, Ark. Filed June 8, 1920. Serial No. 387,458. 2 Claims. (Cl. 285—33.7.)

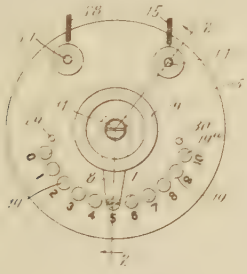
1. In combination, a machine, a tractor draw bar, a tongue having one end pivoted to said machine to swing

in a horizontal plane, the opposite end of said tongue being universally pivoted to one end of said tractor draw bar, a horizontal and laterally extending bracket attached to said tongue, a transversely arranged lever pivoted to the free end of said bracket, a link having one end pivoted to the inner end of said lever and having its oppo-



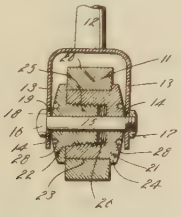
site end universally pivoted to said draw bar, a distance from the pivotal point of said tongue, a link having one end pivotally connected to the outer end of said lever, and means for pivotally and detachably connecting the opposite end of said link to a frame member of said machine.

1,420,189. VARIABLE GRID RESISTANCE. AUBREY R. GOODWIN, Melrose, Mass., assignor to Chelsea Radio Co., Chelsea, Mass., a Partnership consisting of Aubrey R. Goodwin, Carmine Cataldo, and Pellegrino Rizzo. Filed Sept. 8, 1921. Serial No. 499,173. 6 Claims. (Cl. 219—76.)



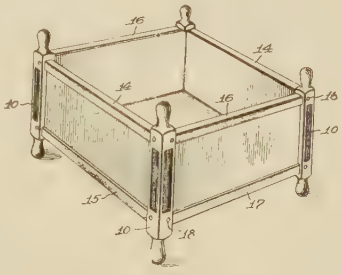
1. In combination, a leak resistance material and a switch constructed and arranged to co-operate with said resistance material to produce a plurality of predetermined values of leak resistance.

1,420,190. CASTER. SEMION LEROY HARDMAN, Ocean Park, Calif. Filed July 21, 1919. Serial No. 312,236. 2 Claims. (Cl. 16—45.)



1. A caster roller embodying two disks having axial bores to receive a shaft, an internally screw threaded sleeve projecting from one face of one of said disks, its inner diameter being larger than the axial bore and its outer diameter smaller than the diameter of the disk; an externally screw threaded projection extending from one face of the other disk of a diameter to screw threadedly engage in said sleeve, the axial bore extending through this projection, a ring of soft material forming a tread rim encircling the periphery of said sleeve and held thereon by said disks; the said projection being shorter in length than the said sleeve to form an oil chamber around the shaft when the two are in screw-threaded engagement.

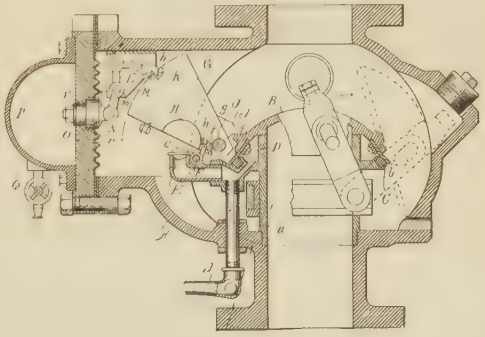
1,420,191. FLOWER BOX. ARNOLD HASSIG, Detroit, Mich. Filed Apr. 9, 1921. Serial No. 460,022. 7 Claims. (Cl. 47—41.)



3. In a device of the character described, the corner piece having adjacent to one of its ends a recess having three walls, each at right angles to the two other, and angle bars co-operating with the corner pieces and adapted at their ends to enter the recesses, the angle bars lying with a vertical flange of each at right angles to the plane of the corresponding vertical flange of the other bar, and the other horizontal flange of each bar lying in a common plane with the corresponding horizontal flange of the other bar and beveled at their point of engagement, the arrangement being such that when the bars are assembled at the corner pieces, the beveled meeting flanges rest against a horizontal face of the recess and the vertical flanges rest against the two other walls of the recess.

7. A flower box of the character described, having metallic angle bars about its upper and lower edges, and having side, end and bottom members formed of panels of asbestos and cement.

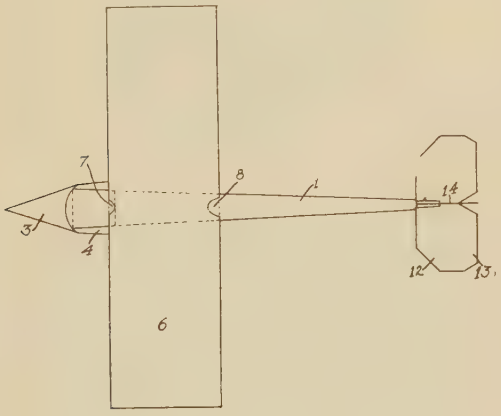
1,420,192. ACCELERATING DRY-PIPE VALVE. GEORGE E. HIBBARD, Chicago, Ill. Filed Dec. 16, 1920. Serial No. 431,163. 8 Claims. (Cl. 169—22.)



1. In a dry pipe valve, the combination with a casing, of an inner tube, a main water valve seated upon the said tube, a differential air chamber surrounding the said tube at the top, an annular seat encircling the said air chamber, the said main valve having a flexible edge portion engaging the said annular seat, pivotal devices for support-

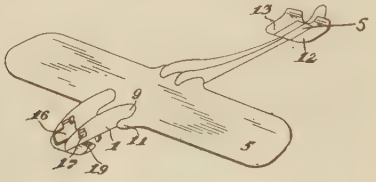
ing the said main valve, an air valve closing the said air chamber and having a trigger, a valve-operating weight constructed to engage and actuate said air valve and main valve, the said casing having a removable head, a diaphragm located within the casing against said removable head, an excess pressure chamber carried externally by the said head, a movable center member attached to the diaphragm and extending through the said head and exposed in the excess pressure chamber, escapement devices engaging the said weight and operated by the said movable member to drop the weight, an air-flow restricting means for retarding the flow of air from the said excess pressure chamber.

1,420,193. TOY AEROPLANE. JOSEPH O. HOWARD, Detroit, Mich. Filed Jan. 23, 1919. Serial No. 272,628. 7 Claims. (Cl. 244—12.)



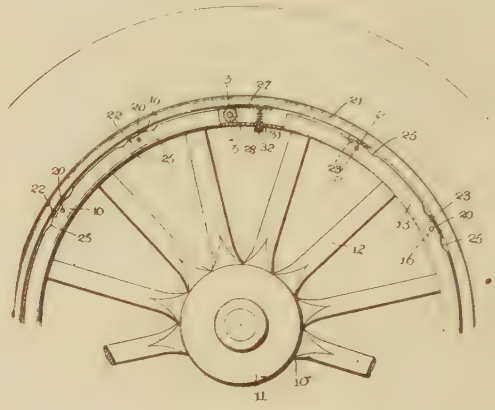
1. A toy aeroplane comprising a long cone shaped body of paper, a nose member provided at the forward end of the body, the said body having a slit formed therein near the forward end and a second slit toward the rear or pointed end of the body, the slit at the forward end being at a less angle to the horizontal than the slit toward the rear end, and a plane member the edges of which are inserted in the slits, the distance between the bottom of the slits being less than the normal width of the plane whereby said plane is held in a curved shape in cross section, the flaps provided by the said slits being glued to the plane.

1,420,194. TOY AEROPLANE. JOSEPH OMAR HOWARD, Evanston, Ill. Filed June 19, 1919. Serial No. 305,352. 9 Claims. (Cl. 244—12.)



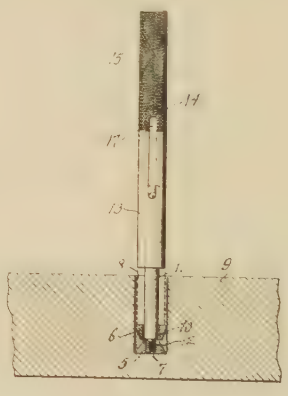
8. In a toy aeroplane, a fuselage formed of paper or the like, an aerofoil provided with a tongue on each longitudinal edge at the center, the fuselage being adapted to receive the tongues, the construction being such that the aerofoil in being assembled is curved transversely and the entering edge positioned slightly above that of the trailing edge relative to the longitudinal axis of the fuselage, an elevating plane at the tail of the fuselage in relative fixed relation with the aerofoil tending to depress the tail of the device when in flight, and a weight at the forward end of the nose of the machine positioning the center of gravity of the device forward of the center of lift.

1,420,195. WHEEL FOR AUTOMOBILES. JESSE PRUETT JACOBS, Shelbyville, Tenn. Filed May 7, 1921. Serial No. 467,631. 8 Claims. (Cl. 301—17.)



8. In combination, a felly, a plurality of rollers journaled on said felly, a demountable rim, lugs carried by the underside of said rim and engageable with said rollers, and means for locking said rim and said felly in adjustable position.

1,420,196. TAMPING TOOL. GOTTFRID KOHLER, Bridgeport, Conn., assignor to Cinch Expansion Bolt & Engineering Company, New York, N. Y., a Corporation of New York. Filed Mar. 5, 1921. Serial No. 449,927. 4 Claims. (Cl. 78—47.)

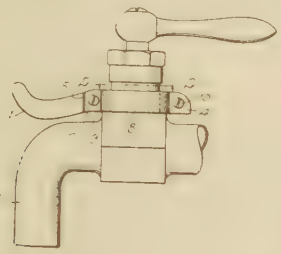


1. A tool comprising a mandrel having a screw threaded end portion adapted to be screwed into the screw threaded bore of the male part of a bolt anchor and further having a cylindrical portion disposed above the screw threaded portion, a tamping device slidingly mounted on the mandrel and adapted, when reciprocated, to strike and crush the soft metallic female part of the anchor surrounding the cylindrical portion of the mandrel and one end portion of the male part.

1,420,197. POT-HOLDING ATTACHMENT FOR FAUCETS. HARRY L. LECHLER, St. Louis, Mo. Filed Feb. 2, 1922. Serial No. 533,541. 1 Claim. (Cl. 248—22.)

A hook-attachment for faucets, comprising a hook-member having a semicircular clamp-member integral therewith, said clamp-member at the junction of said members being of reduced section; a second semicircular clamp-

member adapted to engage at one end said reduced section, and at its other end the opposite end of said first-named



clamp-member; and means for interconnecting said clamp-members at both ends for adjustment of said members on a support.

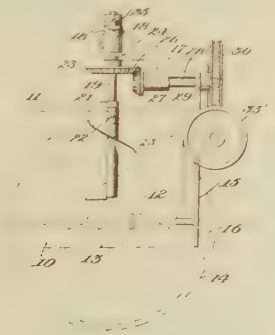
1,420,198. PURIFICATION OF ANTHRAQUINONE. HARRY F. LEWIS, Buffalo, N. Y., assignor to National Aniline & Chemical Co., Inc., New York, N. Y., a Corporation of New York. Filed Mar. 29, 1920. Serial No. 369,641. 9 Claims. (Cl. 23—24.)

1. The method of purifying impure anthraquinone, which comprises subjecting the same to treatment with a halogenated hydrocarbon solvent, and separating the resulting solution of impurities from the purified anthraquinone.

1,420,199. VEHICLE WHEEL. BURNS D. LOCKWOOD, Bellevue, Pa., assignor to Pressed Steel Car Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Aug. 22, 1919. Serial No. 319,087. 1 Claim. (Cl. 301—6.)

A vehicle wheel comprising a plurality of connected metal plates, said plates being dished oppositely to each other and secured in contact with each other, the outer portion of one of said plates being bent to form a seat for the tire rim and a portion of the other of said plates being bent around a portion of the first mentioned plate, said plates so formed and connected together, forming a periphery of substantially triangular cross section for said wheel.

1,420,200. FEEDING ATTACHMENT. DANIEL D. LONG, Boise, Idaho. Filed July 21, 1921. Serial No. 486,410. 12 Claims. (Cl. 17—20.)



6. A feeding attachment for an ordinary meat grinding machine having a hopper, comprising a standard adapted to be secured in position adjacent a grinder and having a portion to extend over a hopper, a rotatable shaft removably mounted in a bearing on said portion of the standard, feeding means operated by said shaft and adapted to project into the hopper of a grinder, and means for driving said shaft from the driving mechanism of a grinding machine.

1,420,201. OXIDATION OF AMMONIA. CHARLES H. MACDOWELL, Chicago, Ill., and HERBERT H. MEYERS and WARREN B. PATTISON, Pittsburgh, Pa., assignors to Armour Fertilizer Works, Chicago, Ill., a Corporation of New Jersey. Filed Dec. 3, 1918. Serial No. 265,180. 2 Claims. (Cl. 23—1.)

1. The method of oxidizing ammonia comprising subjecting a mixture of ammonia and an oxidizing gas at an elevated temperature to contact with a composite catalyzer formed of vanadium oxide and porous alumina made from alunite.

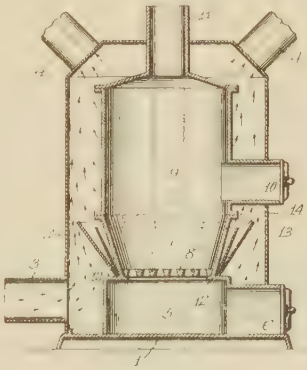
1,420,202. MANUFACTURE OF SULPHURIC ACID. CHARLES H. MACDOWELL, Chicago, Ill., and HERBERT H. MEYERS, Pittsburgh, Pa., assignors to Armour Fertilizer Works, Chicago, Ill., a Corporation of New Jersey. Filed Jan. 20, 1919. Serial No. 272,154. 6 Claims. (Cl. 23—1.)

5. The method of making sulfur trioxide by the contact process which comprises bringing a gaseous mixture containing sulfur dioxide and oxygen at a temperature appropriate to the catalytic production of sulfur trioxide into contact with a composite catalyst containing a compound of vanadium and a compound of aluminum in which each compound contributes to the catalytic activity.

1,420,203. CATALYST. CHARLES H. MACDOWELL, Chicago, Ill., and HERBERT H. MEYERS, Pittsburgh, Pa.; said Meyers assignor to Armour Fertilizer Works, Chicago, Ill., a Corporation of New Jersey. Filed Jan. 20, 1919. Serial No. 272,155. 6 Claims. (Cl. 23—28.)

4. A composite catalyst comprising a compound of vanadium and a compound of aluminum in which each compound contributes to the catalytic activity.

1,420,204. FURNACE. RICHARD MARX, Detroit, Mich. Filed Oct. 7, 1918. Serial No. 257,123. 3 Claims. (Cl. 126—99.)

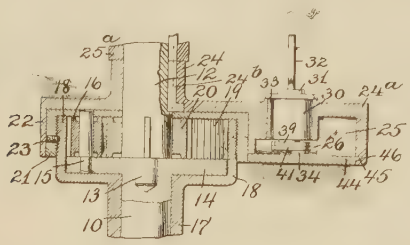


1. In a hot air furnace having a fire box, and a cold air flue adapted to admit cold air to a furnace, inverted frusto-conical shaped deflectors, about the fire box, each supported by the fire box with the lower ends thereof adjoining and closed to cold air and adapted to provide annular compartments having upper open ends adjacent the fire box and from which the cold air is excluded.

1,420,205. AUTOMOBILE LOCK. OTTO F. MEHLIN, West New York, N. J., assignor to Auto Safety Device Company, Newark, N. J. Filed Feb. 10, 1921. Serial No. 443,884. 1 Claim. (Cl. 70—129.)

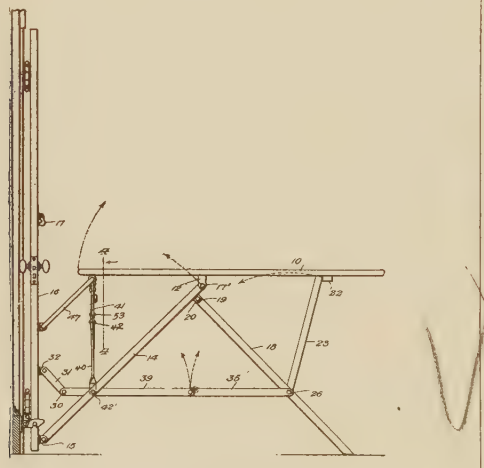
The combination of a steering rod and its casing and a steering wheel on the rod above the casing, with a lock casing secured so as to rotate with the steering rod, said lock

casing including an extension, a lock in said extension for securing the lock casing against rotation relative to the steering rod casing, the extension having an open side with



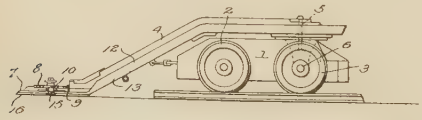
grooves adjacent its outer edges, and a lid adapted to slide in said grooves and locked against withdrawal by the steering post casing when the parts are assembled.

1,420,206. IRONING BOARD. WILLIAM W. MILAM, Paden, Okla. Filed Jan. 12, 1921. Serial No. 436,741. 5 Claims. (Cl. 68—10.)



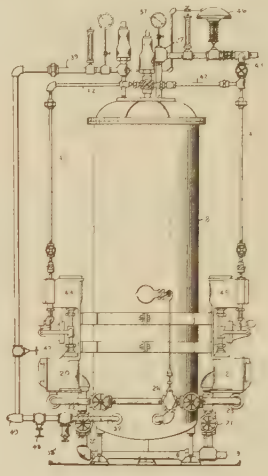
1. In a device of the class described, a board, a rear leg brace pivotally connected therewith, a front leg brace pivoted to the brace first named, devices pivotally connected with a stationary support, collapsible bars connected with said devices and with the front leg brace for limiting the outward movement thereof, and means engaging opposite ends of the board for retaining the latter in a horizontal position.

1,420,207. LOADING MACHINE. WILLIAM E. MOODY, Columbus, Ohio, assignor to James Ellwood Jones, Switchback, W. Va. Filed Feb. 19, 1919. Serial No. 277,969. 7 Claims. (Cl. 198—11.)



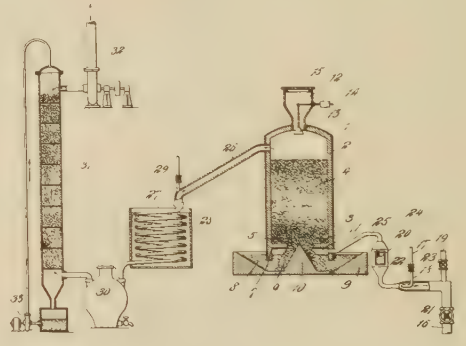
1. In a loading machine, a portable base unit, a conveyor pan including a depressed forward end or nose portion arranged to operate in advance of said base unit, a pivotal connection between said pan and base unit, said connection serving to permit the nose portion to sweep horizontally back and forth across the floor of a mine, and means located on said nose portion and projecting below the under side thereof and serving to permit of the concentration of the weight imposed upon the forward end of the pan thereon.

1,420,208. OIL-BURNING APPARATUS. CHARLES D. MOSHER, New York, N. Y. Filed June 19, 1918, Serial No. 240,732. Renewed Apr. 8, 1922. Serial No. 550,792. 9 Claims. (Cl. 158—47.)



1. In an apparatus of the class described, a vertical cylindrical tank divided by vertical baffling plates, means for maintaining a predetermined level of fuel oil therein, a perforated plate transversely across said tank, heating a group of coils above and another group of heating coils below said plate and directly connected, an inlet for a heating medium at the top of said upper coils, an outlet for said heating medium connected at the bottom of said lower coils, and an oil and vapor outlet below and above said oil.

1,420,209. PROCESS OF MANUFACTURING HYDROCHLORIC ACID AND CARBON MONOXIDE. HERMAN W. PAULUS, Richmond Hill, N. Y., assignor to Royal Baking Powder Company, a Corporation of New Jersey. Filed July 19, 1920. Serial No. 397,426. 8 Claims. (Cl. 23—1.)

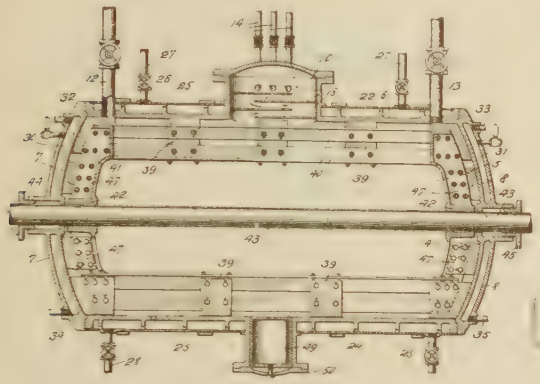


1. The process of making hydrochloric acid and carbon monoxide which comprises mixing chlorine and water vapor in proper proportions, passing the mixture through an incandescent mass of carbon contained in a vessel sealed from the atmosphere and introducing with the water vapor and chlorine sufficient air to maintain the carbon at the necessary temperature for the desired chemical reactions.

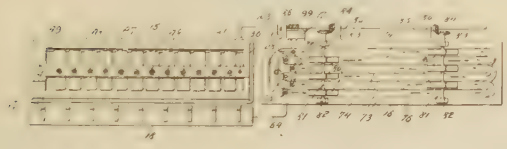
1,420,210. APPARATUS FOR USE IN EFFECTING CHEMICAL REACTIONS. HERMAN W. PAULUS, Richmond Hill, N. Y., assignor to Royal Baking Powder Company, a Corporation of New Jersey. Filed July 26, 1920. Serial No. 399,082. 4 Claims. (Cl. 257—84.)

2. An apparatus for use in effecting chemical reactions comprising a jacketed cylindrical drum, jacketed heads at

the ends of the drum, a shaft supported in the heads, spiders mounted on the shaft at each end of the drum, scrapers supported in staggered relation from the spiders to keep the interior inside surface of the drum clean, means for adjusting the scrapers, a relatively large inlet for admitting gases to the interior of the drum, a plurality of relatively small outlets for conducting away the used gases, means for heating the drum to promote chemical reaction therein, and means for cooling the drum to prevent it from rising above a predetermined temperature.



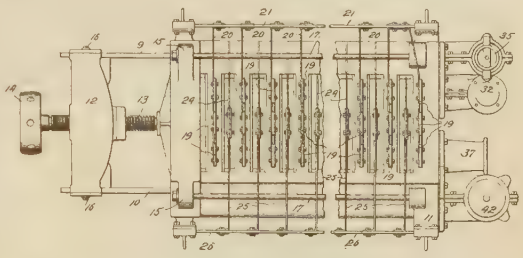
1,420,211. APPARATUS FOR EFFECTING CHEMICAL REACTIONS. HERMAN W. PAULUS, Richmond Hill, N. Y., assignor to Royal Baking Powder Company, a Corporation of New Jersey. Filed July 26, 1920. Serial No. 399,083. 16 Claims. (Cl. 204—58.)



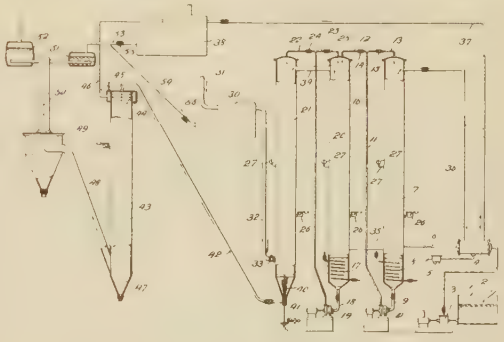
1. An apparatus for use in effecting chemical reactions by means of amalgams, comprising an electrolytic cell in which the amalgam is formed, said cell being divided into a series of longitudinal channels for facilitating the passage of the mercury therethrough, a chamber in which the chemical reaction takes place, a cooling trough between the cell and the chamber, the bottom of said trough having a series of transverse depressions to facilitate the passage of the mercury therethrough, said chamber being divided into a series of channels into some of which the mercury passes from the trough into the chamber and from some of which the mercury passes from the chamber into the cell, a series of paddles in the chamber for impelling the mercury in one direction and a second series of paddles in the chamber for impelling the mercury in the opposite direction, and means for returning the mercury from the chamber to the cell.

1,420,212. METHOD OF AND APPARATUS FOR ELECTROLYTIC REDUCTION AND OXIDATION. HERMAN W. PAULUS, Richmond Hill, N. Y., assignor to Royal Baking Powder Company, a Corporation of New Jersey. Filed July 26, 1920. Serial No. 399,084. 20 Claims. (Cl. 204—5.)

1. An apparatus for electrolytic reduction and oxidation comprising a cell adapted to contain electrolyte, a stationary plate like electrode in the cell, and means for admitting the electrolyte to the cell so that it will have a rotary motion relatively to the surface of the electrode.

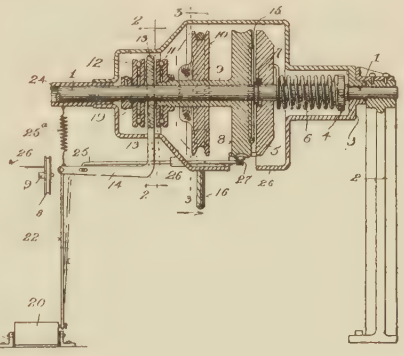


1,420,213. MANUFACTURE OF OXALATE. HERMAN W. PAULUS, Richmond Hill, N. Y., assignor to Royal Baking Powder Company, a Corporation of New Jersey. Filed July 26, 1920. Serial No. 399,086. 4 Claims. (Cl. 23—24.)



1. The process of making oxalate from finely divided dry formate which consists in maintaining a descending vertical column of inert gases at a temperature ranging from 360° C. to 440° C., and dropping the finely divided formate into the column of heated gases.

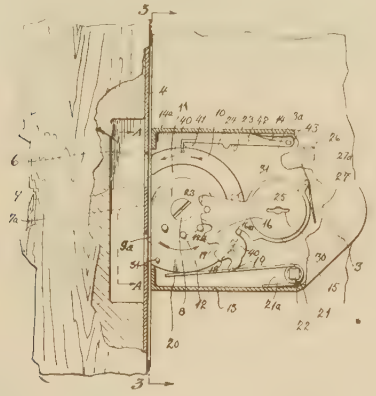
1,420,214. FRICTION-CLUTCH MECHANISM. WILLIAM L. PIERCE, New York, N. Y. Filed Apr. 12, 1917. Serial No. 161,464. 5 Claims. (Cl. 192—55.)



1. In a friction drive mechanism, a power driven shaft, a collar carried by said shaft to rotate therewith, a member loosely mounted on said shaft, a spring coil surrounding said shaft and connected at one end to said collar and at the other end to said member, to exert both its compression and its torsional tensions upon said member, a stop on said shaft to limit the movement of said member under

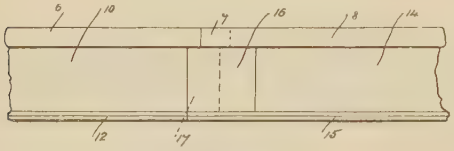
the influence of the compression tension of said coil, a cooperating member mounted on said shaft, means to move said cooperating member into frictional engagement with said first mentioned member, and driving means actuated by said cooperating friction member.

1,420,215. LOCK. CHARLES PIKE, Brooklyn, N. Y. Filed Feb. 27, 1920. Serial No. 361,638. 2 Claims. (Cl. 70—14.)



1. A lock comprising a casing, a toothed sector pivotally mounted therein, a substantially circular member pivotally mounted therein adjacent said sector, an arcuate tongue projecting from the periphery of said circular member, pins on the face of said circular member adapted to be engaged by said toothed sector, a member pivotally and resiliently mounted in said casing and having a projecting end, a recess in the periphery of said circular member adapted to receive said end, said pivotally mounted member having means thereon adapted to be actuated by said toothed sector to lift said end from the recess, means adapted to hold said sector in either of two positions, and a stop on said pivotally mounted member engageable with said sector when the tongue is fully extended.

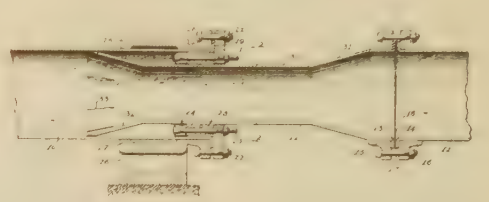
1,420,216. RAIL. DAVID A. PRY, Walnut, Pa. Filed Feb. 28, 1922. Serial No. 539,836. 1 Claim. (Cl. 238—234.)



Two rails adapted to be connected together, said rails having complemental tops and bases at their meeting end portions, one rail having the end portion of its web projecting beyond the end of its base and forming a tongue, said rail having also a longitudinal projection at its top which projects beyond its said web; and the other rail having a notch at its top part to receive the said longitudinal projection, and having also side plates on the end portions of its web which project beyond its top part and straddle the said tongue, and having the end portion of its base also projecting beyond its said top part so as to extend under the bottom edge of the said tongue, the channel between the said side plates being open at the top and communicating with the said notch so that the said tongue can be dropped vertically through the notch into engagement with the channel.

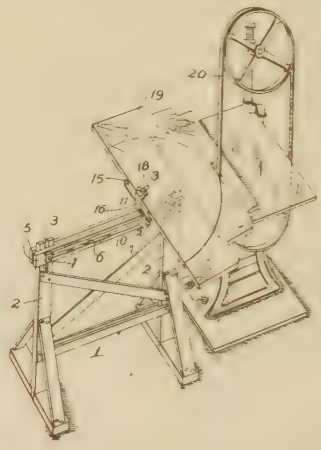
1,420,217. EXPANSION JOINT. FRANCIS H. RICHARDS, Hartford, Conn. Filed Dec. 11, 1918. Serial No. 266,329. Renewed Aug. 26, 1921. Serial No. 495,716. 12 Claims. (Cl. 285—162.)

10. In an expansion joint, the combination with two main pipe lengths, of a short pipe length secured at one end to one of said main pipe lengths, the other end of said short pipe length being slidable in said other main pipe length, said short pipe length being restricted at its intermediate portion and flaring outwardly at either end to conform to the diameter of the main pipe length, an outwardly extending flange on the end of said other main pipe length, a ring on said other main pipe length, an



annular member, bolts for securing said flange between said ring and said annular member, a portion of said annular member overhanging the inner periphery of said other main pipe length, a ring disposed inside of said other main pipe length, a packing, and bolts for securing said packing between said ring and said overhanging portion to encircle the restricted portion of said short pipe length.

1,420,218. DEVICE FOR HOLDING LUMBER TO BE CUT. MIKEL T. RICHARDS, Bristol, Tenn. Filed Jan. 27, 1922. Serial No. 532,220. 2 Claims. (Cl. 143—171.)



1. In a device of the class described, the combination with a frame, a bearing block adjustably mounted on said frame, of a supporting shaft provided near its upper end with an integral collar and with a reduced upper end mounted within the bearing block, a bracket device comprising an elongated base having said reduced end of the shaft positioned therein, the collar on said shaft engaging the bearing block, vertical stop pins formed upon the base near its rear edge and at opposite ends of the base, a vertical, integral back formed upon the base at the center of its rear edge, a horizontal top integral with the back and overhanging the base, and a set-screw at the front edge of and extending through the top, substantially as shown and described.

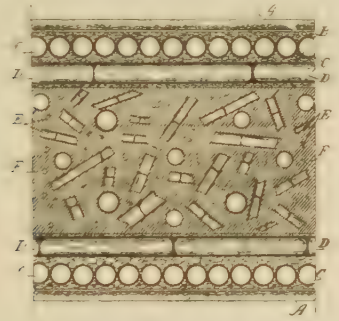
1,420,219. ADJUSTABLE TIP FOR CORSET AND SHOE LACES. ISIDOR B. ROSS, New York, N. Y., assignor to Elizabeth Berlston, New York, N. Y. Filed Nov. 10, 1921. Serial No. 514,145. 7 Claims. (Cl. 24—143.)

1. A tip for laces embodying a split sleeve adapted to house one end of a lace, and a threaded portion adapted to be screwed into the lace to form that portion of the lace within the split sleeve into a cylindrical section sub-

stantially coaxial with the threaded portion and to place said cylindrical portion under compression for the pur-

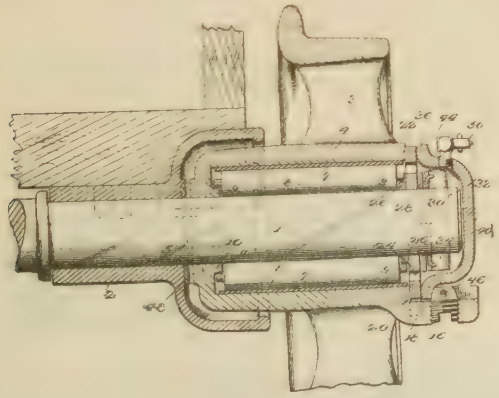
pose of expanding and placing the split sleeve under tension, whereby the tip is firmly secured against inadvertent displacement from the lace.

1,420,220. BUILDING ELEMENT OR BLOCK. EMILE VICTOR ROUX, Marseille, France. Filed Aug. 24, 1921. Serial No. 494,835. 1 Claim. (Cl. 72—45.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



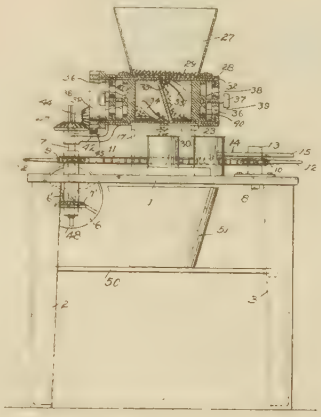
Blocks for use in building refrigerating chambers, comprising layers of reeds arranged crosswise and agglomerated by casein and, between such layers and forming the interior of the blocks, cut reeds also agglomerated with casein.

1,420,221. WHEEL. HUGH W. SANFORD, Knoxville, Tenn. Filed Oct. 22, 1920. Serial No. 418,729. 21 Claims. (Cl. 295—49.)



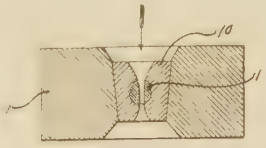
1. In a wheel, and in combination with an axle, a hub rotatable on said axle, an outer cap covering the end of the axle, and wedging means movable in a plane to which the axle is perpendicular for impinging endwise upon and locking said cap to the end of said hub.

1,420,222. CAN-FILLING MACHINE. ARNO SCHMIDT, Hayward, Calif. Filed Feb. 17, 1919. Serial No. 277,398. 7 Claims. (Cl. 226—95.)



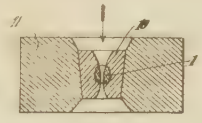
1. A can filling machine comprising a hopper having an elongated slot, means to advance a series of cams longitudinally of said slot below the same, a slotted cylinder revoluble in contact with said hopper the slot in said cylinder being formed to deliver a restricted stream of material from the hopper slot progressively along the same and into the cans as they pass thereunder.

1,420,223. DIAMOND DIE AND METHOD OF MAKING SAME. ABRAHAM SIMONS, New York, N. Y. Filed Dec. 9, 1920. Serial No. 429,415. 3 Claims. (Cl. 205—29.)



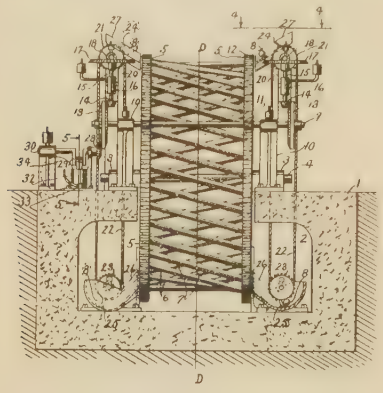
1. A diamond die embodying a bored diamond held in a body of contracted metal and subjected to compressive stresses in a direction at an angle to the axis of the said bore.

1,420,224. METHOD OF MAKING DIAMOND DIES. ABRAHAM SIMONS, New York, N. Y. Original application filed Dec. 9, 1920, Serial No. 429,415. Divided and this application filed Nov. 30, 1921. Serial No. 518,744. 6 Claims. (Cl. 205—29.)



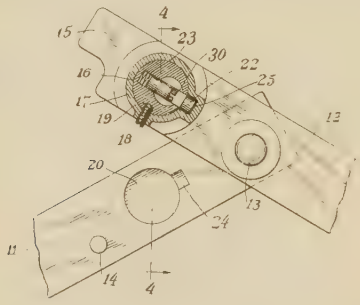
1. A method of making a diamond die which consists in embedding a diamond in a metal plug, securing the said plug in a holder which exerts compressive force thereon, and then boring the plug and diamond in a direction at an angle to the line of the said compressive force.

1,420,225. AMUSEMENT DEVICE. GEORGE W. SMUTZ, San Jose, Calif. Filed Oct. 8, 1921. Serial No. 506,416. 6 Claims. (Cl. 46—37.)



1. An amusement device comprising a pair of spaced, parallel and revoluble wheels, and a plurality of annular rows of tubes connecting said wheels, the tubes in each row being parallel, equally spaced, open at one end and closed at the other end, and angularly arranged with relation to a diametral plane passing through the device but the angularity of alternate rows being opposite in direction and equal in degree.

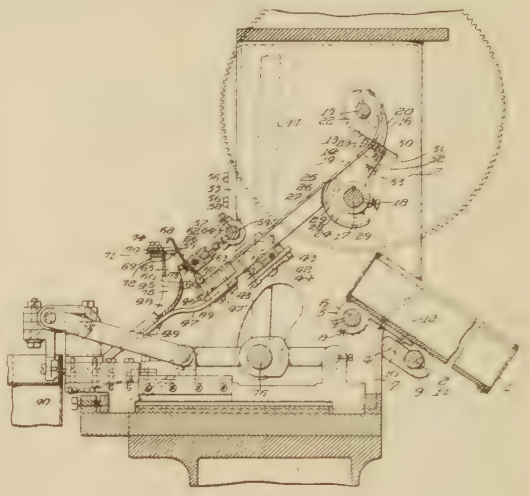
1,420,226. LOCKING DEVICE FOR TIRE CARRIERS. HENRY G. VOIGHT, New Haven, Conn. Filed Dec. 10, 1920. Serial No. 429,614. 12 Claims. (Cl. 70—14.)



3. In a construction of the character described, two bars hinged to each other, a transversely movable bolt carried by one bar and normally engaging the other bar, a latch carried by said bolt for normally preventing the movement thereof, a key operated plug for retracting said latch, the bar which carries said bolt having an inclined shoulder for automatically retracting said latch when said bolt is pushed into locking position.

1,420,227. MULTIPLE STAPLING MACHINE. HARRISON B. WALTER, Philadelphia, Pa., assignor to Fibre Container Company, a Corporation of Pennsylvania. Filed Aug. 26, 1920. Serial No. 406,135. 11 Claims. (Cl. 1—3.)

8. In a stapling machine comprising staple separating means and staple driving and clinching means, the combination of inclined means for receiving said separated staples in depending and gathered disposition, a second inclined means adapted to receive fed staples and to gravitationally guide said staples to said driving and clinching means, means on said first mentioned inclined means for maintaining the gathered staples in position for feeding operation, said feeding means provided with means for successively engaging said gathered staples and for moving said staples to stripping position, stripping means located in the path of said feeding means and above said second inclined means, and adapted to strip said staples from said engaging means whereby said staples gravitate into and along said second inclined means to said driving and clinching means, and pendulous means carried by said

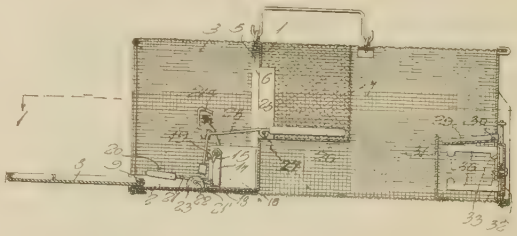


feeding means adapted in one position thereof to maintain said gathered staples in position during the engagement of said engaging means with said staples and in another position to guide the movement of said staples from said stripping means to said second mentioned inclined means.

1,420,228. SPINNING BAIT FOR FISHING PURPOSES. GUY ST. BARBE SLADEN WATKINS, Daviot, Scotland. Filed Aug. 24, 1921. Serial No. 494,877. 3 Claims. (Cl. 43—47.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

3. In a spinning bait for fishing purposes, the combination of a rotational body part provided with a circumferential groove, a plurality of adjustable rings mounted in the said groove in frictional contact with each other and with the sides of the groove, and projections radially extending from the said rings, the said projections constituting vanes adapted by the angular adjustment of the said rings to form a right or left handed helix of any desired pitch

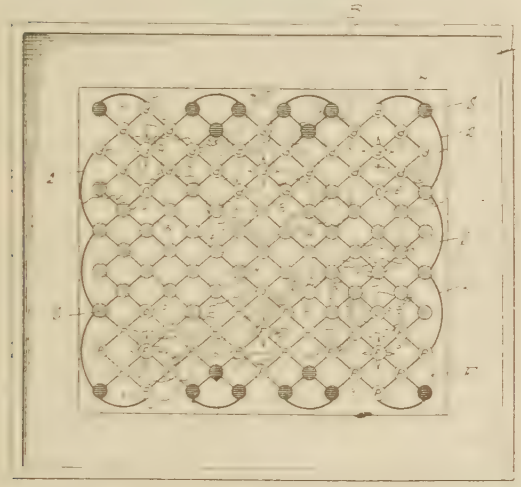
1,420,229. TRAP. LORAN J. WILSON, Jonesville, Va. Filed Nov. 28, 1919. Serial No. 341,125. 5 Claims. (Cl. 43—73.)



1. A trap of the class described including an elongated cage having a vertical transverse partition to form two compartments, said partition having an opening therethrough, one compartment having an open outer end, a swinging door for closing said open end, a spring motor

mounted in said open ended compartment, connecting means between said motor and door to permit opening and closing of the door by the motor, a shaft projecting inwardly from said motor, an arm operated by said shaft, means for stopping said motor when the door is in its open position, said means including a treadle, a stop finger carried by said treadle for disposition in the path of said arm, said treadle being depressible to release said arm for rotation, a second treadle, said second treadle being mounted in the partition opening and an arm carried by said second treadle, said arm being positioned to arrest rotation of said shaft operated arm when the door is closed and movable by depression of said second treadle to permit opening of said door by the motor.

1,420,230. GAME APPARATUS. LESLIE M. ADAMS, Seattle, Wash. Filed Apr. 16, 1921. Serial No. 461,878. 3 Claims. (Cl. 46—21.)



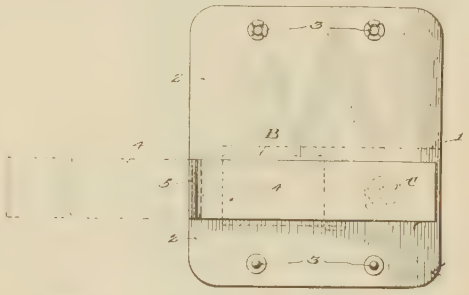
2. A game board having stations arranged thereon, said stations being divided into series with the stations of each series in alinement, the stations of adjacent series being staggered, and diagonal lines connecting certain of the stations, the remainder of the adjacent stations being disconnected, the rear series of stations having pairs of stations connected by a line, the end stations of certain of the series being connected by a line.

1,420,231. STEERING MECHANISM. FRANCESCO ALIQUO, Rome, Italy. Filed June 25, 1921. Serial No. 480,480. 3 Claims. (Cl. 114—24.)

1. A torpedo steering mechanism comprising a rectifying motor and means operable by an abnormal deviation of the torpedo for reversing the action of the motor to increase and maintain the deviation.

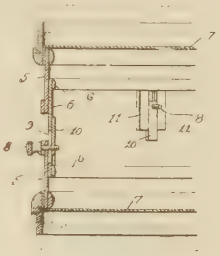
1,420,232. JEWELRY CONTAINER. LAWRENCE E. BAER, Attleboro, Mass., assignor to Baer & Wilde Company, Attleboro, Mass. Filed Mar. 19, 1921. Serial No. 453,568. 1 Claim. (Cl. 150—34.)

In a jewelry container, a flexible body of approximately rectangular elongated form having a central transverse line of fold along its shortest length whereby when folded the body will have a pair of long sides defined by the line of fold and by the free meeting side edges of the body, a strap of considerable less width than that of the sides of the body secured at one end to one of the sides and having its opposite end free, said strap being formed of a width approximately equalling that of a belt so as



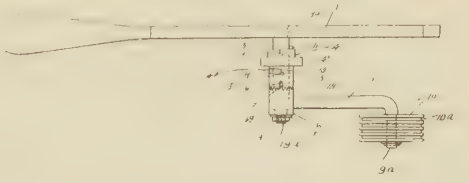
to enable the free end of the strap to be received in a belt buckle, and a series of fastening means located adjacent to the free meeting edges of the sides to hold the latter together throughout the lengths of the sides, the strap being disposed so as to have its sides located between the line of fold and the fasteners when the container is closed so as to thereby hold the buckle against movement laterally of the container.

1,420,233. DRUM. WILLIAM H. BALDWIN and CHARLES T. PLUMMER, Duluth, Minn. Filed Feb. 7, 1922. Serial No. 534,767. 5 Claims. (Cl. 84—411.)



1. A drum comprising a body made of two outer sections and a central section telescoped within said outer sections, and means accessible from the exterior for clamping the sections in their adjusted positions, whereby a single drum may be converted from a large drum to a small drum and vice versa.

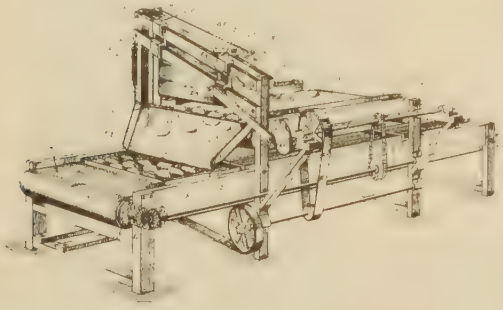
1,420,234. UNDERCUTTER. WILLIAM LE ROY BARTELL, deceased, late of Portland, Oreg., by Mrs. Ida Cook, administratrix, Willamette, Oreg. Filed Sept. 16, 1920, Serial No. 410,723. Renewed Nov. 14, 1921. Serial No. 515,131. 4 Claims. (Cl. 143—163.)



1. An undercutter comprising a dog, a stub shaft carried by the dog, a clutch member rotatably mounted upon the stub shaft, an arm fixed to the clutch member, a guide wheel journaled upon the arm, a second clutch member having a cam surface and slidably mounted upon

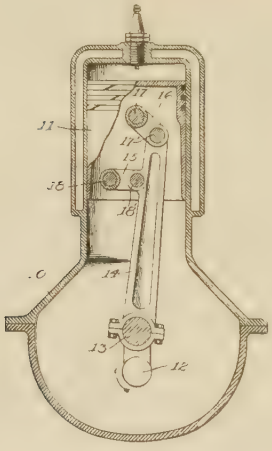
the stub shaft, and a sleeve rotatably mounted upon the stub shaft and having a cam surface cooperating with the cam surface of the second clutch member to engage and disengage the clutch members by the adjustment of said sleeve.

1,420,235. BREAD-SLICING MACHINE. HAROLD E. BJORLIN, Duluth, Minn. Filed Mar. 13, 1922. Serial No. 543,193. 1 Claim. (Cl. 146—12.)



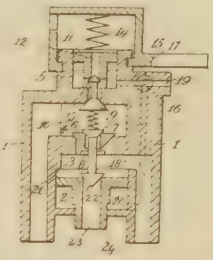
The combination with a machine for slicing bread including an endless loaf feeding belt and a slidable cutting knife operable upon inclined ways, of a pin carried by said knife, a lever pivotally mounted upon the knife ways, one end of which lever is operable in one direction by engagement with the pin at the termination of the upward stroke of the knife, said lever having a plurality of spaced holes in the opposite end, a reciprocable line having a hook at one end for selective engagement within the holes in the lever and a contractile spiral spring at the opposite end so that the pivotal lever is normally held for engagement by the pin, a pawl and ratchet mechanism engaged with the line intermediate of its ends and operated thereby and means cooperatively uniting the pawl and ratchet mechanism with the loaf feeding belt whereby intermittent motion is imparted to the latter.

1,420,236. INTERNAL-COMBUSTION ENGINE. AXEL J. BOHMAN, Minneapolis, Minn. Filed Feb. 27, 1922. Serial No. 539,711. 5 Claims. (Cl. 74—20.)



1. In an explosion engine, the combination with the piston and crank shaft, of a connecting rod connected to said crank shaft, a link connecting the upper end of said rod to the piston, and a second link connecting the piston and connecting rod.

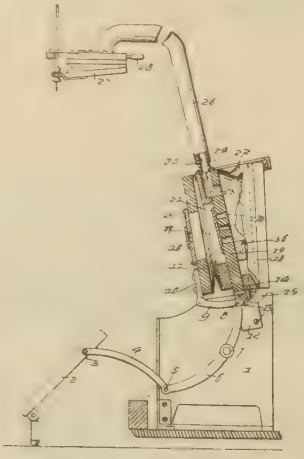
1,420,237. COMPRESSED-AIR CONTINUOUS BRAKE SYSTEM FOR PASSENGER OR FREIGHT TRAINS. DOBRIVOJE BOŽIĆ, Belgrade, Jugo-Slavia. Filed Mar. 1, 1922. Serial No. 540,299. 16 Claims. (Cl. 303—28.)



1. In a brake system of the character described, an engineer's valve comprising a primary piston, a variable loading spring for operating the piston against pneumatic pressure, a secondary piston controlled by the operation of the primary piston, a valve mechanism controlled by the secondary piston for the admission or exhaust of air to or from the train pipe for the regulation of pressure in such pipe, the valve mechanism in operative relation with the primary piston adapted for governing admission of main reservoir pressure to the chamber of the primary piston for balancing the spring loading.

2. In a brake system of the character described, an engineer's valve comprising a casing having a principal reservoir chamber, a train pipe chamber, and two control chambers having a direct connection whereby substantially the same pressure is maintained in the latter chambers, pistons in the control chambers, valve mechanism disposed between the principal reservoir chamber and the train pipe chamber and controlled by the piston in the control chambers which is influenced by the difference between the pressure in the train pipe chamber and in the control piston chambers, an atmosphere valve cooperating with the last mentioned piston for relieving the train pipe pressure when the latter predominates, a variable loading spring under control of the engineer for governing the admission of compressed air from the principal reservoir chamber to the control piston chambers, the control piston in the second of said chambers being influenced by the pressure admitted against the action of the loading spring.

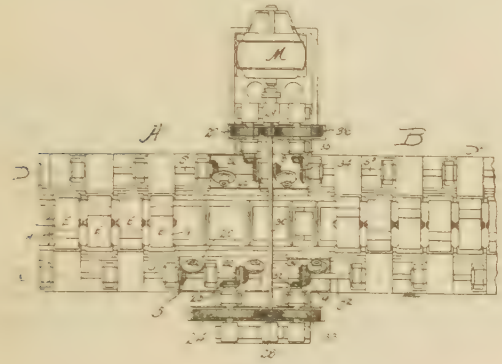
1,420,238. PEDAL-OPERATED EXHAUST MECHANISM FOR AUTOMATIC MUSICAL INSTRUMENTS. GEORGE P. BRAND, New York, N. Y. Filed Oct. 29, 1917. Serial No. 199,140. 15 Claims. (Cl. 84—40.)



1. In an automatic music player, the combination of an air tension member, an exhauster, a concussion bellows

in valved deflating communication therewith, and a restricted inflating communication between said concussion bellows and said air tension member.

1,420,239. CONTINUOUS TUBE ROLLING MILL. RICHARD E. BROCK, Canton, Ohio, assignor to The Woodard Machine Company, Wooster, Ohio. Filed Sept. 13, 1920. Serial No. 409,922. 6 Claims. (Cl. 80—11.)

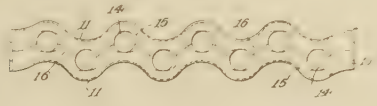


6. In a continuous tube rolling mill, a mill unit including a plurality of roll stands, rolls in each stand forming a roll pass, separate shafts at each side of the pass formed by the rolls of the roll stands, gears of progressively and uniformly increasing diameter arranged on said shafts and located opposite alternate roll stands, driving connections between said rolls and said gears, means for driving one of said shafts at a faster rate of speed than the other, and a common source of power for actuating said means.

1,420,240. BEADING-TOOL RETAINER. CARL BUSH, Mattoon, Ill., assignor of one-half to Frank L. Walters Mattoon, Ill. Filed July 16, 1921. Serial No. 485,332. 2 Claims. (Cl. 81—3.)

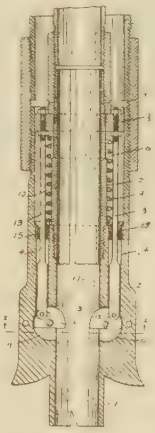
1. In combination with a beading tool, a ring of flexible material disposed upon the shank of the tool at a selected location and frictionally gripping the tool shank.

1,420,241. METHOD FOR MAKING HEADERS FOR TUBULAR BOILERS. JOHN J. CAIN, Bayonne, N. J. Filed Jan. 24, 1919. Serial No. 272,822. 4 Claims. (Cl. 29—157.4.)



1. The method of making headers for tubular boilers which consists in forming trough-like vessels with the side walls thicker than the bottoms, arranging them in pairs with the edges of the side walls adjacent, and then welding said edges together, whereby the welding lines of the completed header are located in the thickened side walls.

1,420,242. CORE-TAKING DEVICE. WALTON G. CHRISTIAN, Houston, Tex. Filed July 18, 1921. Serial No. 485,565. 4 Claims. (Cl. 255—72.)



1. A core taking device including a stem, a bit secured to the lower end thereof and formed with a bore, a yieldably mounted plunger, and core engaging dogs mounted in the bit and connected to said plunger said plunger being arranged to be actuated by water pressure in one direction to withdraw said dogs from said bore, and yieldable means operating in the other direction, to project said dogs into the bore.

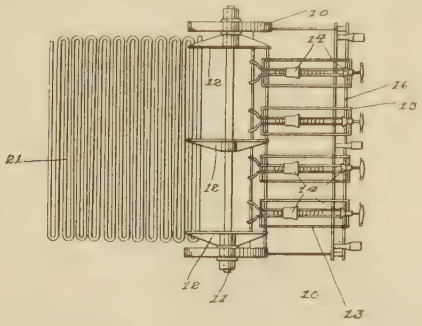
1,420,243. RAT GUARD. ABE COHEN, Brooklyn, N. Y. Filed Oct. 17, 1921. Serial No. 508,319. 6 Claims. (Cl. 114—221.)

1. A rat guard comprising side members terminating in serrations along a median line.

1,420,244. GLUING CLAMP AND DRIER. FRANK DIEHL, Wabash, Ind. Filed Oct. 13, 1919. Serial No. 330,272. 1 Claim. (Cl. 144—289.)

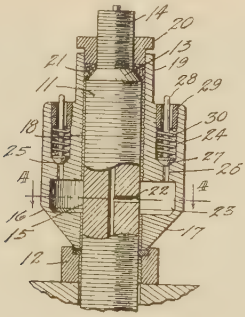
The combination with a housing having an opening in one wall, of a stop member mounted to swing within the opening, a curtain suspended therefrom for closing a portion of the opening, a series of radial clamp carrying arms mounted for rotation in the housing and movable suc-

cessively to position upon the stop member to limit the rotation of the arms, and heating means within the



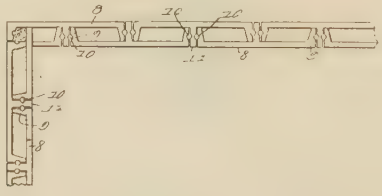
lower portion of the housing and close to the path of the arms.

1,420,245. PNEUMATIC-TIRE VALVE. EDWARD D. DOUGHERTY, Dallas, Tex. Filed Apr. 14, 1921. Serial No. 461,221. 4 Claims. (Cl. 152—11.5.)



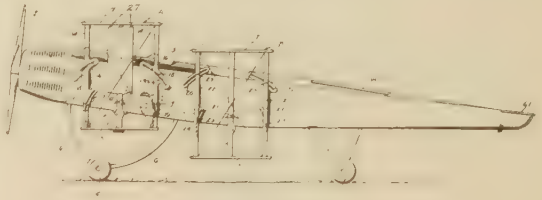
1. In a tire pressure release valve device, a jacket having an annular cavity for communication with the air passage of a valve stem, said jacket being provided with a screw threaded central bore for receiving a tire valve stem, a valve chamber in the jacket having connection with the cavity of the jacket, a spring pressed release valve disposed in the chamber of the jacket and normally preventing the discharge of air from the cavity, and a packing gland at the upper end of the jacket mounted in the central bore thereof.

1,420,246. CEMENT INTERLOCKING PLATE. OTTO FABER, La Porte, Tex. Filed Mar. 31, 1919. Serial No. 286,303. 1 Claim. (Cl. 72—59.)



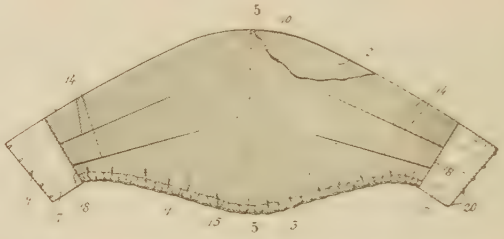
A wall structure consisting of inner and outer interlocking wall elements of which each comprises a plurality of plates consisting of slab like bodies formed at each longitudinal edge with flange portions extending the full lengths of the bodies, the latter being further formed with intermediate flange portions extending the full length of the body and disposed between the end flanges of adjacent plates of the opposite wall, the extremities of the intermediate flange portions being exposed at the outer face of the opposite wall, the adjoining faces of adjacent flanges being formed with intermediately disposed seats for the reception of keys.

1,420,247. FLYING MACHINE. JOHN G. FAUST, Washington, D. C. Filed Sept. 29, 1920. Serial No. 413,469. 9 Claims. (Cl. 244—29.)



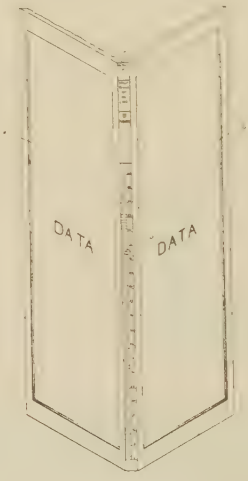
1. In a flying machine, successive planes in stepped relation and bodily tiltable for varying the angle of incidence, vertical rudders carried by one of said planes, means for controlling the movement of said planes, and means for adjusting the vertical rudders and maintaining the same in an adjusted position irrespective of movement of the bodily tiltable planes.

1,420,248. BRASSIÈRE. NELLIE L. FAY, New York, N. Y., assignor of one-half to Lillian E. Scofield, New York, N. Y. Filed Jan. 22, 1920. Serial No. 353,153. 4 Claims. (Cl. 2—73.)



1. A brassière comprising opposite end sections, an intermediate fabric section connected with said end sections and consisting of two complemental layers in which the weave extends on the bias in directions transverse to each other in the respective layers, and means carried by said end sections for fastening the brassière in place.

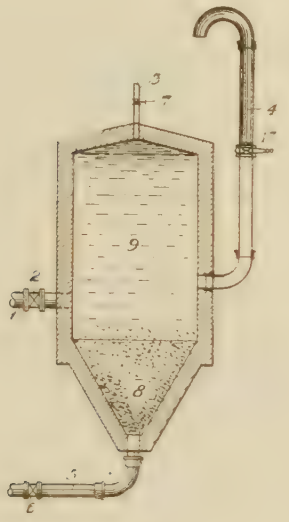
1,420,249. FLEXIBLE GRAPH. RALPH E. FOX, New York, N. Y. Filed Mar. 28, 1918. Serial No. 225,303. 21 Claims. (Cl. 40—2.)



1. In a flexible graph, a series of units each of which has movable indicia exposed thereon adapted when said

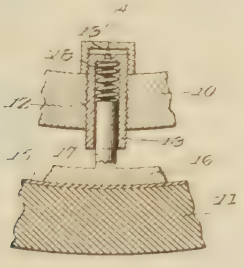
units are assembled to form different graphs or curves, said units being arranged to form a desired graph or curve and adapted to be rearranged to form a different graph or curve.

1,420,250. SEWAGE DISPOSAL. WESTON GAVETT, Plainfield, N. J. Filed Oct. 11, 1921. Serial No. 506,988. 9 Claims. (Cl. 210—2.)



1. An improvement in the treatment of sewage which consists in subjecting the sewage during digestion to the pressure of gas generated by digestion, and under the pressure of such gas driving off the supernatant liquid from the sludge.

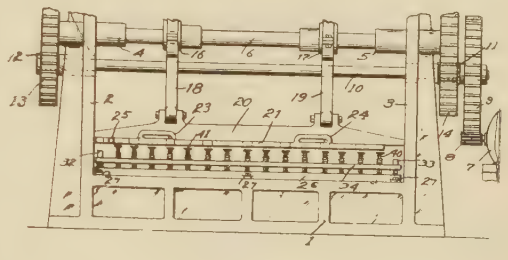
1,420,251. SPRING WHEEL. LOUIS GELFOND, Newport News, Va. Filed Sept. 9, 1921. Serial No. 499,402. 1 Claim. (Cl. 152—8.)



A spring wheel including a felly having a plurality of threaded openings therein, members adjustably supported within the said openings, each of said members having a longitudinal bore extending part way of its length, resulting in an open end and a closed end, an outer flexible rim disposed concentrically of the felly, pins secured to the outer rim and extending into the bores of the members, and a spring supported within each member and bearing at one end against the pin and at the other against the inner wall of the closed end.

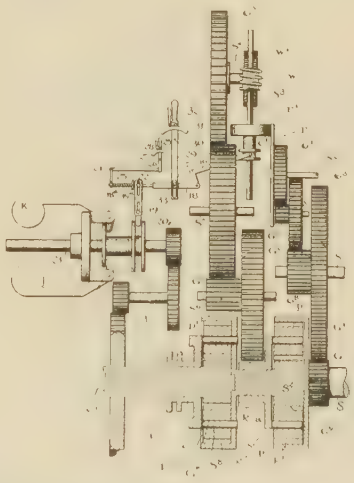
1,420,252. PUNCHING JIG. LOUIS GOEHR, San Francisco, Calif. Filed Aug. 10, 1920. Serial No. 402,669. 2 Claims. (Cl. 164—90.)

1. A punching jig comprising a base carrying a plurality of dies, a bar above the base, guides for directing the movement of the bar, springs for supporting the bar resiliently in a given position, a plurality of punch guides, stripper tubes carried by the bar, punches movable in the



latter guides and stripper tubes and springs for supporting said punches so that the ends of the punches will be normally above the bottom of the stripper tubes.

1,420,253. VARIABLE-SPEED MECHANISM. STEPHEN WILLIAM GRIFFIN, Waterloo, Ill. Filed May 1, 1920. Serial No. 378,253. 2 Claims. (Cl. 74—34.)

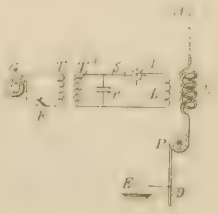


1. A variable speed mechanism comprising a driving shaft, a second shaft, a gear loosely mounted on the second shaft, means operable by the driving shaft for driving said gear, means operable by said gear for operatively connecting the driving shaft and the second shaft in such manner that a driving of the second shaft is effected at a speed in inverse proportion to the rotational speed of the gear, the last means including a friction gear and a friction wheel movable on the surface of the gear, a centrifuge adapted to be driven by the second shaft, and means operatively connecting the centrifuge and the friction wheel to vary the position of the latter with respect to the friction gear.

1,420,254. ELECTRIC-WAVE TRANSMISSION. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed May 20, 1912, Serial No. 698,441. Renewed Dec. 12, 1917. Serial No. 206,856. 12 Claims. (Cl. 250—121.)

1. In a system of electric wave transmission, the combination with a fluid antenna automatically and irregularly varying in capacity, of means for generating continuous

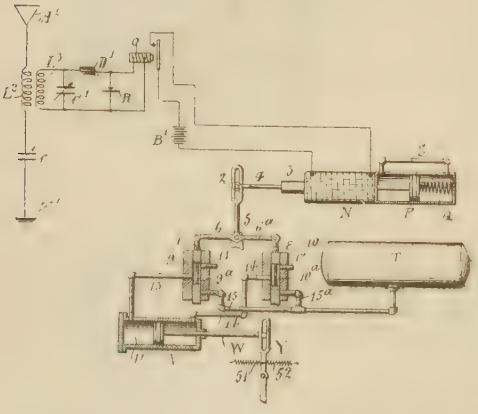
uniform oscillations associated with said antenna, and means for periodically interrupting said oscillations whereby groups of waves of constantly and irregularly varying amplitude are radiated.



1,420,255. ANTENNA FOR RADIOTRANSMISSION SYSTEMS. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Feb. 27, 1913, Serial No. 750,981. Renewed Oct. 23, 1918. Serial No. 259,455. 13 Claims. (Cl. 250—33.)

1. An antenna for vessels for the emission and reception of radiant energy, one end of which antenna is attached to a vessel and the other end of which is attached to a towing anchor in such a manner that it shall be extended out from said vessel.

1,420,256. SYSTEM OF TELEDYNAMIC CONTROL. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Feb. 25, 1913, Serial No. 750,705. Renewed Oct. 24, 1918. Serial No. 259,543. 24 Claims. (Cl. 250—2.)

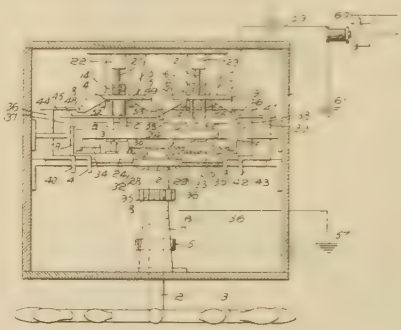


1. A receiving system for radiant energy, comprising means responsive to impulses of radiant energy in varying degrees depending upon the frequency of said impulses.

1,420,257. SYSTEM AND APPARATUS FOR AUTOMATIC WAVE SELECTION. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Jan. 21, 1910, Serial No. 539,248. Renewed Dec. 7, 1918. Serial No. 265,787. 14 Claims. (Cl. 250—2.)

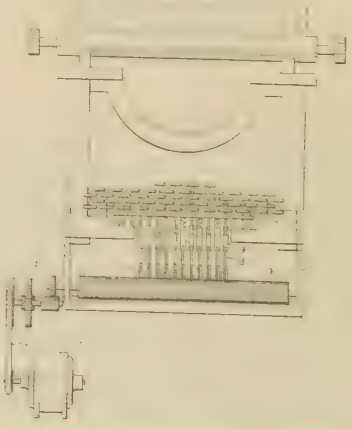
1. In a system of automatic wave selection the combination of a transformer at the sending station, a rotatable tuning coil at the receiving station, means for operating the transformer to change the wave lengths at pre-determined intervals and means to rotate said tuning coil in approximate synchronism with the transformer.

1,420,258. SYSTEM FOR THE RADIO CONTROL OF MOVING BODIES. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Sept. 3, 1913, Serial No. 788,034. Renewed Apr. 14, 1919. Serial No. 290,108. 38 Claims. (Cl. 250—2.)



5. In a system for controlling the operation of moving bodies at a distance by radiant energy, the combination of a wheel rotatable in either direction, a pivoted switch, connections between said wheel and switch to compel corresponding movements of the latter, two fixed contacts in the path of movement of said switch and at opposite sides respectively of a neutral position thereof, one or more movable contacts at opposite sides of the neutral position of said switch, means controlled by said switch to render said movable contacts inoperative, and connections from said contacts for transmitting radiant energy.

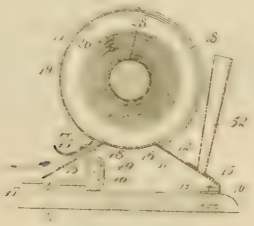
1,420,259. ATTACHMENT FOR TYPEWRITERS. HAROLD L. HEDRICK and HENRY C. CHANTLER, Columbus, Ohio. Filed Sept. 5, 1919. Serial No. 321,772. 13 Claims. (Cl. 197—16.)



1. An attachment for typewriters comprising elements removably connected to the typewriter key levers of a type-

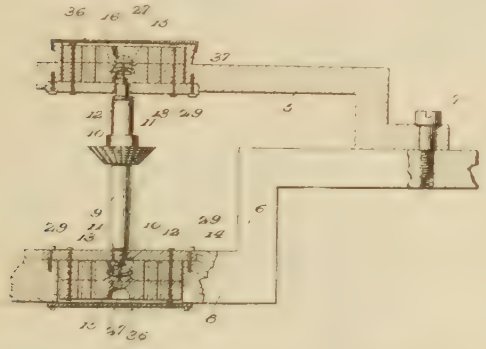
writer, means independent of the typewriter for carrying through the depression of any key slightly depressed and automatically releasing said keys the instant depression is completed.

1,420,260. CHECK AND MONEY-ORDER CASE. GEORGE HENRY, San Francisco, Calif. Filed Aug. 13, 1919. Serial No. 317,181. 3 Claims. (Cl. 211—31.)



1. In a device of the character described, a hollow base having upwardly converging sides, a cylindrical container mounted upon the upper ends of said sides, said container having a fixed back wall, and a slidable front wall complementary thereto, end members secured to the fixed back wall, and within which the opposite end edges of the movable front wall may slide, a lip formed longitudinally of the lower side of the front wall adapted to be disposed in parallel relation to the corresponding side of the base when in its lowered position, said lip and side of base being provided with register slots, a locking pin concealed within the hollow base, means by which said pin may be raised to extend through said slots, and a lock by which said pin may be held in its raised position.

1,420,261. WATCH. HERBERT NATHAN HILL, Belmond, Iowa. Filed Aug. 26, 1921. Serial No. 495,590. 4 Claims. (Cl. 58—140.)

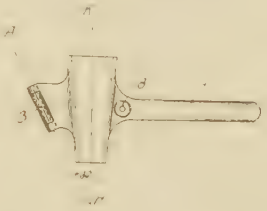


1. The combination with balance staff jewels, of a balance staff associated therewith, means to yieldably support said jewels, and means to limit the longitudinal and lateral movement of said balance staff, and a dust cap extended over each of the jewel supporting means.

1,420,262. TEXTILE REED. HENRY E. HURTZ, Hawthorne, N. J. Filed Dec. 23, 1920. Serial No. 432,763. 7 Claims. (Cl. 139—14.)

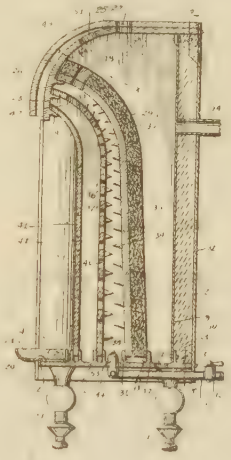
3. In a textile reed, the combination, of a plurality of dents, each of said dents being a solid cylindrical segment of uniform cross section throughout its length having a longitudinal arcuate surface, and a plane surface, and means for rigidly fastening said dents to form a reed.

1,420,263. NUTCRACKER. ISAK ISAACHSEN, Christiania, Norway, assignor to A/S De Norske Saltverker, Christiania, Norway. Filed Sept. 28, 1920. Serial No. 413,382. 5 Claims. (Cl. 146—3.)



1. In a nut cracker two cracking levers pivotally connected at their ends by means of a trunnion the axis of which forms an acute angle with the said levers, said levers being provided with channels substantially at right angles to the same and forming between them a tapering crushing chamber.

1,420,264. HEATING APPARATUS. EUGENE H. KENNEDY, Mansfield, Ohio. Filed Feb. 7, 1920. Serial No. 356,900. 3 Claims. (Cl. 126—92.)

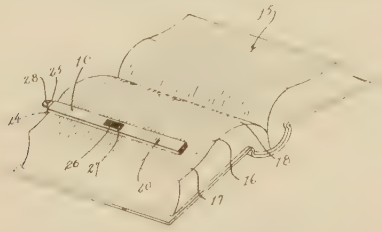


1. In a gas fire heating structure, a metal body, means of securing fire brick to the back wall thereof, fire brick side walls secured to the metal body in spaced relation to the side walls of the metal body, two flat radiant heat retaining elements secured in spaced relation to the rear wall of the metal body and in spaced relation to each other providing a tapered passageway between them from the bottom to the top thereof, a burner secured to the lower portion of the metal body and arranged in the space between the radiant heating elements, means to direct the products of combustion from between said radiant heating elements into the chimney flue, and a canopy attached to the upper portion of the metal body having its free ends arranged in spaced relation to the front portion of the stove body to provide an air passage to communicate with the space between the radiant heating elements and the rear wall of the stove body.

1,420,265. BOOKMARK. WILLIAM KIECKHEFER, Milwaukee, Wis. Filed Oct. 12, 1921. Serial No. 507,175. 5 Claims. (Cl. 116—119.)

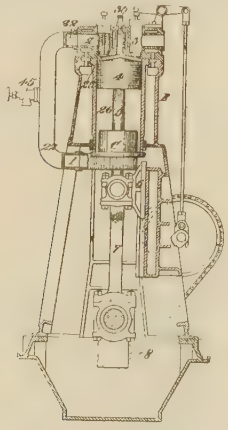
4. A book mark comprising a longitudinally extending hollow sheath having front and rear walls provided wit

actuating openings, a pair of plates slidably mounted within the sheath having the outer faces thereof provided with corrugations adapted to appear in rear of said open-



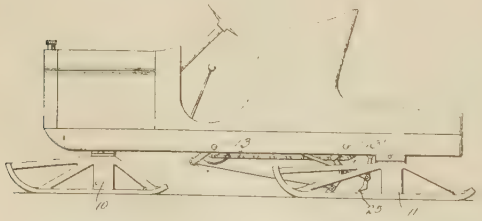
ings and adapted to frictionally engage the inner surface of the front and rear walls of the sheath, and indicia carried by the terminals of the plates.

1,420,266. INTERNAL-COMBUSTION ENGINE. SAMUEL L. G. KNOX, San Rafael, Calif. Filed Jan. 15, 1917. Serial No. 142,529. 15 Claims. (Cl. 123—59.)



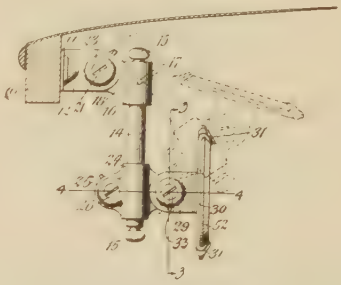
1. In a supercharging four-stroke cycle internal combustion engine, the combination of a cylinder, a cylinder head in one end thereof, a valve head in the opposite end thereof, inlet and outlet valves carried by the valve head, a trunk piston in the cylinder adapted to be telescoped over the valve head, a piston rod connected to the piston and passing through a stuffing box in the valve head, a cross head connected to the piston rod, and a manifold connected to the valve head for leading compressed gas directly from the valve head to the cylinder head, the piston acting as a gas compressor to complete two pumping strokes for each explosion stroke of the engine.

1,420,267. MOTOR SLEIGH. JOSEPH A. LACASSE, Lake Linden, Mich. Filed Mar. 18, 1920, Serial No. 366,924. Renewed Mar. 27, 1922. Serial No. 547,291. 1 Claim. (Cl. 180—4.)



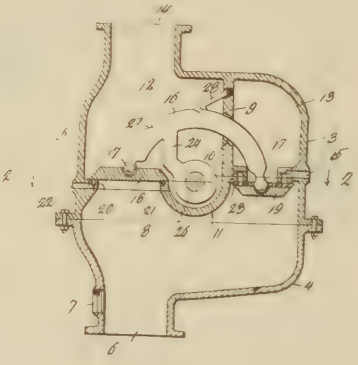
A propelling mechanism for a motor sleigh comprising a pair of transverse shafts, the forward shaft having long cranks on its end portions, the rearward shaft having short cranks on its end portions, short links carried by and depending from the short cranks, ground engaging propelling legs pivotally carried by the lower ends of the short links, and long links connected pivotally to the long cranks of the forward shaft and to the intermediate portions of the ground legs.

1,420,268. BRACKET FOR SUPPORTING MIRRORS. WILLIAM LA HODNY, Buffalo, N. Y. Filed Feb. 2, 1921. Serial No. 441,765. 1 Claim. (Cl. 45—97.)



A mirror bracket comprising a base adapted to be attached to a support, an upright supporting rod pivotally connected with said base to swing vertically, two clips capable of sliding lengthwise on the lower part of said rod and also turning thereon and consisting of two semi-cylindrical sleeve sections embracing opposite sides of said rod and provided on one pair of their corresponding edges with two laterally projecting clamping lugs and on their other pair of corresponding edges with laterally projecting pivot ears, a clamping bolt connecting said clamping lugs, a head adapted to support a mirror and having two pivot lugs which receive between them said pivot ears, and a pivot bolt passing through said pivot lugs and ears.

1,420,269. DRY-PIPE VALVE. HARRY H. MCCARN, Seattle, Wash. Filed Dec. 2, 1920. Serial No. 427,775. 1 Claim. (Cl. 169—22.)

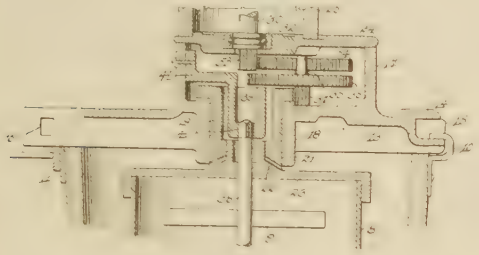


A dry pipe valve including a casing equipped with a vertical partition in its upper end to provide a pair of air compartments, the portion of the casing below said partition constituting a water compartment, a valve arm movably arranged through said partition and equipped with valves on its terminals to close communication through said compartments, and a pawl carried by the partition and automatically engageable with said valve arm to hold the latter stationary after the valves have been opened.

1,420,270. POWER-DRIVEN AGITATING MECHANISM. JOHN B. MCFERRAN, Jr., Louisville, Ky. Filed June 23, 1921. Serial No. 479,772. 4 Claims. (Cl. 259—53.)

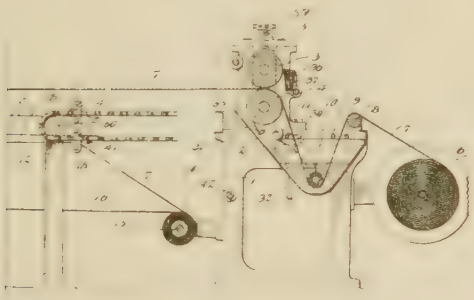
1. In apparatus of the character described, the combination with a supporting bridge having means at its

ends for engagement with a container, of a gear casing on said bridge, a motor mounted on the gear casing and including a housing terminating at its top in a handle,



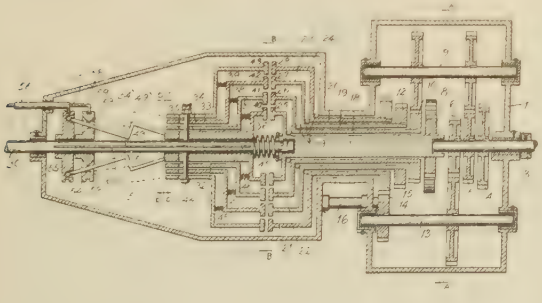
gearing within said casing driven by the motor, and means operated by the gearing for engagement with a movable member of the device to which it is applied.

1,420,271. METHOD AND APPARATUS FOR PRODUCING WEFTLESS CLOTH. JOSEPH A. MCLANE, Morgantown, W. Va. Filed Mar. 30, 1921. Serial No. 456,993. 31 Claims. (Cl. 154—1.)



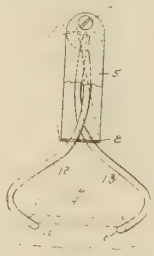
1. The process of producing a weftless cloth comprising drawing a plurality of flexible strands in sheet formation through a bath of adhesive elastic material, maintaining the strands separated by substantial distances whereby the adhesive material will form a web therebetween, and drying the adhesive material to form the finished product, with a substantial thickness of said adhesive elastic material therebetween.

1,420,272. SPEED-CHANGING DEVICE. CHARLES K. MATTHEWS, Portland, Oreg. Filed Nov. 1, 1920. Serial No. 420,994. 4 Claims. (Cl. 74—59.)



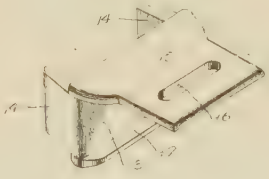
1. In a speed changing device, the combination of a housing, an engine shaft rotatably mounted in the housing, gears of varying diameter mounted on said engine shaft, a plurality of shafts revolvably mounted in each other and in the housing, a clutch face mounted at one end of each shaft, all clutch faces rotating within the same vertical plane, a gear mounted at the other end of each shaft, and counter shafts grouped around the last-named gears and the gears on the engine shaft to transmit continuous rotation at varying speed and direction from the latter to the former.

1,420,273. JAR LIFTER. ALISON MAY, Portland, Oreg. Filed Mar. 16, 1921. Serial No. 452,661. 3 Claims. (Cl. 294—28.)



1. In a jar lifter, the combination of an inverted U-shaped frame, a handle secured between the open ends of said frame, a slidable handle between the sides of said frame, two opposed U-shaped jaw members whose sides pass through the closed end of said frame and hinged to said slidable handle member.

1,420,274. BRAKE SHOE. BENJAMIN F. MILLER, Henderson, Tex., assignor of forty-five per cent to Forest L. Miller, Henderson, Tex. Filed July 12, 1920. Serial No. 395,547. 1 Claim. (Cl. 188—221.)

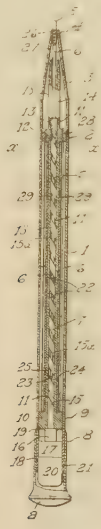


The combination with a vehicle brake beam, of a brake block holder comprising a body adapted to be disposed against the rear edge face of the beam and having block retaining means thereon, a wide horizontal flange formed on the upper edge portion of the body and adapted to rest on the upper face of the beam, a narrow horizontal flange on the lower edge portion of the body adapted to engage in supporting relation to a portion of the lower face of the beam, and a retaining bolt disposed through the wide flange and the beam for adjustably holding the block holder on the beam.

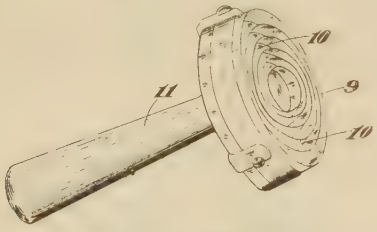
1,420,275. PENCIL. LUCIFER J. MOST, New York, N. Y., assignor, by mesne assignments, to Pencil Products Corporation, New York, N. Y., a Corporation of Virginia. Filed Aug. 26, 1918. Serial No. 251,457. 3 Claims. (Cl. 120—18.)

1. In combination in a pencil, a body portion, a lead propelling mechanism therein, a magazine within the body, reserve leads in said magazine adapted to be slid therefrom, an active lead in said propelling mechanism, a removable closure cap for the body portion, the active lead

projecting through said cap, and means on said cap for gripping said active lead whereby when the cap is removed, the active lead is also removed from the propelling mechanism, leaving the reserve leads in the magazine free from interference with the active lead.

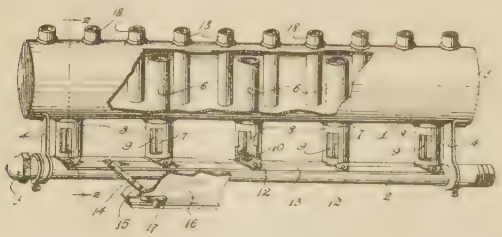


1,420,276. METHOD OF MAKING METAL-BASE CUTTING DIES. JOHN F. MURPHY, Worcester, Mass., assignor of one-half to Hamilton B. Wood, Worcester, Mass. Filed Sept. 29, 1920. Serial No. 413,641. 1 Claim. (Cl. 76—107.)



The herein described method of making a metal base die, which consists in widening and simultaneously peening a ribbon of tempered metal on an arbor, expanding said ribbon to the approximate shape desired by the insertion of removable spacers between adjacent portions thereof, forcing a templet or pattern of the true shape desired into place within the expanded ribbon, thereby displacing said spacers, casting a base to embed the edges of said ribbon that project beyond said templet and removing said templet.

1,420,277. FUEL MIXER. MORTIMER L. PACKER, Columbus, Ohio. Filed Aug. 15, 1921. Serial No. 492,599. 2 Claims. (Cl. 158—106.)

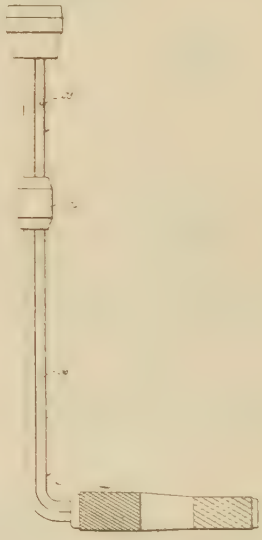


1. A fuel commingling structure for gas burners, comprising a fuel supply pipe, a mixing receptacle disposed in cooperative relation with said pipe, an inlet member carried by said receptacle and situated so that one extremity thereof will be in alignment with an outlet opening formed in said pipe, the opposite end of said member extending into said receptacle, the lower end of said member being provided with an air inlet port, a manually operated shutter for controlling the effective area of said port, and discharge tubes carried by said reservoir and situated adjacent to said inlet member.

1,420,278. MANUFACTURE OF BLADING FOR TURBINES. CHARLES ALGERNON PARSONS, ALFRED QUINTIN CARNEGIE, and MATTHEW BONE, Newcastle-upon-Tyne, England; said Carnegie and said Bone assignors to said Parsons. Filed June 7, 1921. Serial No. 475,789. 10 Claims. (Cl. 29—23.5.)

1. Method of manufacturing solid metal strip bar or the like of a desired cross-section from a blank which consists in holding said blank by a part thereof in operative proximity to a former-bed having a die formation, and by a succession of longitudinally progressive compressive operations working on one face only of said blank stage by stage to flow the metal of said blank along the die formation of said former-bed, and thereby to give it the desired cross-section.

1,420,279. WRENCH HANDLE. FRANK E. PARSONS, Dorchester, and WALTER M. ROBINSON, Weston, Mass.; said Parsons assignor to said Robinson. Filed June 12, 1920. Serial No. 388,446. 10 Claims. (Cl. 81—177.)

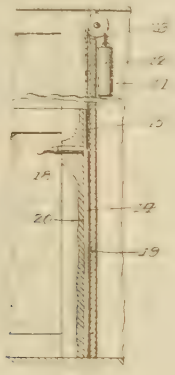


1. A combination tool comprising a handle or holder having a plurality of sockets therein, a connecting rod fitting into one of said sockets and tools fitting respectively the end of said rod and one of said sockets.

1,420,280. WINDOW-SASH BALANCE. THEODORE L. PATRICK, Pawpaw, Ill. Filed Mar. 11, 1921. Serial No. 451,437. 2 Claims. (Cl. 16—202.)

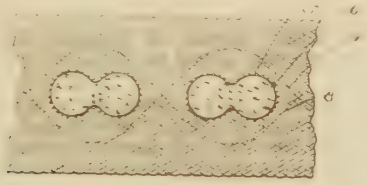
2. A window and sash construction including a stile pocket and sash weight including a sash cord, a sash having a longitudinal groove in each vertical edge face, each stile having a groove throughout its length, a tubular member disposed partly in each sash groove and partly in a stile groove for slidable movement in the latter, one

end of the sash cord being secured to the tubular member, and means on the sash for releasably holding the tubular



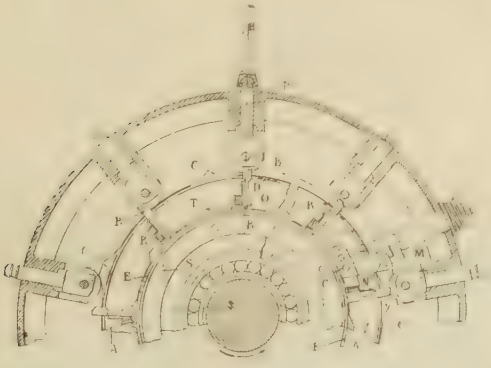
members in the grooves of the sash and serving to maintain the sash within the frame by their engagement in the said grooves.

1,420,281. FRICTION DEVICE. CARL J. PIHL (now by judicial change of name Carl John Piel), Boston, Mass. Filed Sept. 24, 1920. Serial No. 412,465. 5 Claims. (Cl. 188—259.)



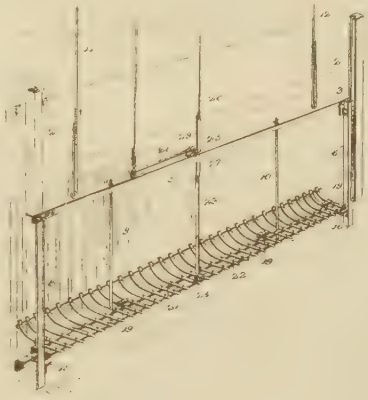
5. A friction element comprising an elongated strip of textile fabric having a longitudinally extending series of openings therein, said openings being elongated in the direction of length of said strip, and a plug of cork seated in each of said openings, said cork being compressed in a direction transverse to the length of said openings whereby to resist transverse narrowing of the strip when subjected to longitudinal tension.

1,420,282. COMPRESSION-RELIEF SYSTEM FOR STAR-SHAPED ENGINES. PIERRE JEAN RENÉ POSTEL-VINAY, Paris, France, assignor to Societe des Moteurs Salmson (Systeme Canton-Unne), Paris, France. Filed Oct. 31, 1921. Serial No. 511,796. 2 Claims. (Cl. 123—182.)



1. A compression relief device for internal combustion engines having radial cylinders, comprising a ring having cams thereon, means for rotating said ring, pusher rods adapted to be operated by the cams, valves in the engine cylinders, means for operatively connecting said valves to the pusher rods, springs tending to close said valves, an annular member, means for supporting said annular member concentrically with the cam ring, means for rotating said annular member by a certain angle, spring controlled levers pivoted on said annular member and adapted to engage with the pusher rods for preventing the valves from closing, stationary bosses adapted to act on said levers and releasing bosses on the cam ring adapted to act upon the levers.

1,420,283. DEVICE FOR CLEANING FLUME GRATINGS. WILLIE O. RANDLETT, Richmond, Va., assignor of one half to Cyrus B. Buchanan. Filed Feb. 15, 1921. Serial No. 445,246. 8 Claims. (Cl. 210—176.)

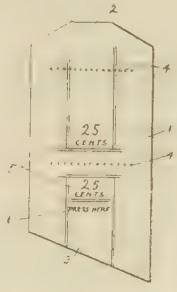


1. The combination with a grating of the character described, guides adjacent said grating, a frame sliding in said guides, a pivoted rake carried by the lower end of the frame, means for locking the rake in its titled position when lowering the frame in the guides and also in its working position.

1,420,284. REFRACTORY SILICA BRICK AND PROCESS OF MANUFACTURE. ORAZIO REBUFFAT, Naples, Italy, assignor to Pomilio Brothers Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 5, 1921. Serial No. 520,076. 10 Claims. (Cl. 106—11.)

1. The process of rapid conversion of quartz into its allotropic varieties of lower specific gravity by incorporating therein small quantities of the radicals of acids nonvolatile at high temperature and calcining the same and recovering said allotropic varieties of said quartz of lower specific gravity than quartz, substantially as set forth.

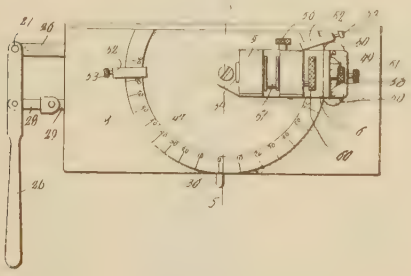
1,420,285. COIN WRAPPER. JOHN J. REINHOLD, Marietta, Pa. Filed Apr. 7, 1920. Serial No. 372,036. 2 Claims. (Cl. 133—10.)



1. A coin wrapper of the class described having a series of perforations arranged in lines adapted to register

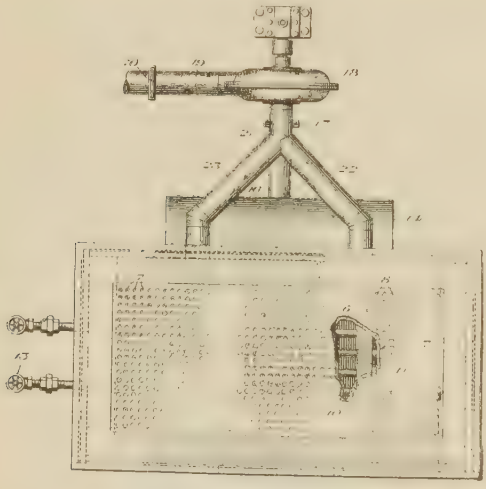
with each other when said wrapper surrounds a roll of coins and running in the direction of the length of the roll, for the purpose of weakening the package in one place to render the same easily broken open and the contents ejected therefrom.

1,420,286. ATTACHMENT FOR GRINDING MACHINES. HARRY E. RINTOUL, Sheepshead Bay, N. Y. Filed July 23, 1920. Serial No. 398,342. 2 Claims. (Cl. 51—216.)



1. In a device of the class described, a frame, a carriage slidable on said frame, means for slidably operating said carriage on said frame, a shaft rotatably carried by said carriage, a table attached to said shaft so as to be rotatable on said carriage, adjustable means carried by said table for holding the object to be ground, a sector carried on the upper portion of said carriage, a groove provided in the vertical outer side of said sector, adjustable stops carried on said sector so as to limit the movement of said table, a bracket carried on said table, rollers provided in said bracket so as to ride in said groove in the sector, and means carried by said bracket for locking said table at any desired position on said sector.

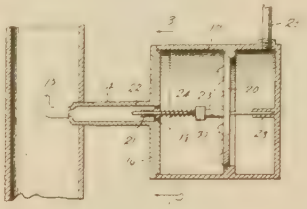
1,420,287. METHOD OF AND APPARATUS FOR MAKING RUBBER NIPPLES. ROY SANDERSON, Kenmore, Ohio. Filed Aug. 30, 1921. Serial No. 496,809. 11 Claims. (Cl. 18—1.)



1. A method of vulcanizing rubber nipples that comprises subjecting the interior thereof to the action of a vaporized vulcanizing agent.

1,420,288. AUXILIARY AIR FEED FOR EXPLOSIVE ENGINES. JOSEPH SCALCO, Crowley, La. Filed June 22, 1920. Serial No. 390,873. 1 Claim. (Cl. 251—144.)

In combination with an intake manifold of an explosive engine, an auxiliary air feeding device comprising a pipe having its inner end extending through the wall of said manifold and secured therein, a disk or flange secured to the outer end of said pipe and having its outer edge threaded, a cylindrical air chamber threaded to engage the threads of said disk or flange and having an air inlet in one side, an internal annular flange within said air chamber shaped to form a tapered valve seat, an inwardly opening valve to fit said seat, stems extending

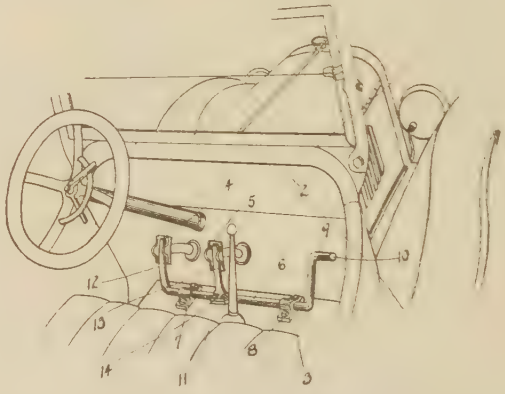


inwardly and outwardly from the faces of said valve, a perforated disk mounted within the outer end of said pipe, tubular concentric projections extending from said perforated disk and from the inside wall of said air chamber respectively, to form guides for said valve stems, an adjusting nut engaging on said inwardly projecting valve stem, and a helical spring encircling said stem between said perforated disk and said adjusting nut, for the purpose described.

1,420,289. INK. ERNEST E. SCHMIDT, Blanton, Fla. Filed Dec. 2, 1921. Serial No. 519,401. 6 Claims. (Cl. 134—32.)

3. The herein described composition, comprising one and one-half ounces of spirit of soluble black, two ounces of oil of mibrane, one and one-half ounces of carbolic acid crystals and a smaller proportion of Turkey red oil, substantially as set forth and for the purposes specified.

1,420,290. AUXILIARY CONTROL FOR MOTOR VEHICLE. GEORGE L. SCHOFIELD, Kansas City, Mo. Filed Nov. 28, 1919. Serial No. 341,199. 1 Claim. (Cl. 74—81.)



An auxiliary motor vehicle controller comprising a rock shaft, levers mounted on the rock shaft for engaging the faces of the control pedals of a motor vehicle and a foot lever at the end of the rock shaft for actuating said shaft.

1,420,291. SAW HANDLE. ROBERT W. SCOTT, Spokane, Wash. Filed Aug. 24, 1921. Serial No. 495,049. 2 Claims. (Cl. 145—111.)

2. The combination with a shank having means for attachment to a saw blade, of a pair of telescopic barrels having coacting means for retaining said barrels in longitudinal alinement, an expansion spring within the barrels

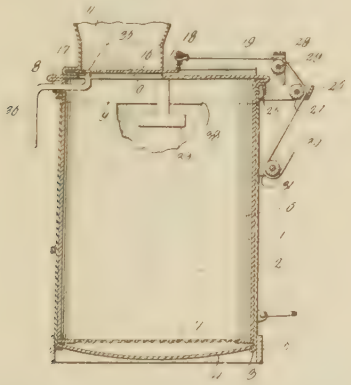
and surrounding the shank, a guard on one barrel to engage the saw blade, and a socket member on the other

barrel having angular grooves for engagement with a saw handle whereby the handle may be adjusted angularly of the saw blade.

1,420,292. BONNET FRAME FOR AUTOMOBILE VEHICLES. ALFRED ERNEST LEON SECQUEVILLE, Seine, France, assignor to Societe Anonyme des Anciens Etablissements Secqueville and Hoyau, Gennevilliers, Seine, France. Filed June 17, 1920. Serial No. 389,715. 4 Claims. (Cl. 180—69.)

4. A bonnet frame comprising a frame with a groove therein for the reception of the bonnet rim, the said frame being of a section to engage with and fit around the longitudinal beam of the chassis and the apron, guides on said frame, spring bolts mounted in said frame, and a light bracket on said frame, the frame, guides and light bracket being cast in one piece.

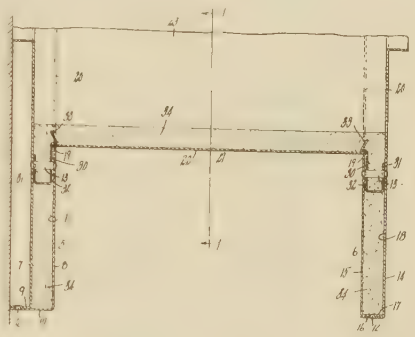
1,420,293. RECEPTACLE. MARTIN E. SMITH, Corvallis, Oreg. Filed May 25, 1921. Serial No. 472,403. 2 Claims. (Cl. 220—41.)



2. In combination, a can, a closure therefor provided with an opening, a hopper fixed to the closure and registering with its opening, a plate slidably mounted in the hopper and provided with an aperture, means for actuating the plate to an open position, and means for normally holding the plate in a closed position and a pipe situated in the can having one end registering with the aperture of the plate when it is in a closed position and the other end of a pipe situated interiorly of the can.

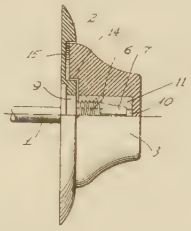
1,420,294. STAIR STRUCTURE. ADOLF A. SWANSON, Everett, Mass. Filed Mar. 11, 1921. Serial No. 451,492. 9 Claims. (Cl. 72—96.)

1. In a stair structure a pair of stringers each provided with a channel formed therein, a plurality of step units mounted upon said stringers each comprising a tread support and a riser portion and a continuous body of fire-



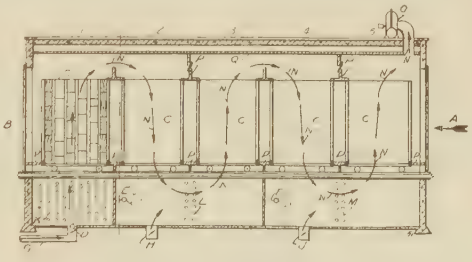
proof material located within said channels and extending across said tread support.

1,420,295. COMBINED KNOB AND DIAL FOR RADIO APPARATUS. ROBERT W. TAIT, New York, N. Y. Filed Oct. 12, 1921. Serial No. 507,293. 14 Claims. (Cl. 116—129.)



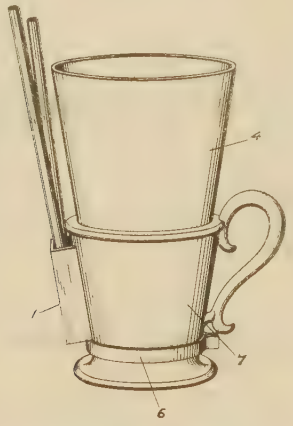
6. Radio apparatus embodying a dial, provided in its forward face with an annular recess, a knob having a complementarily shaped ring like section at its back, a forwardly extending tubular tapering threaded post associated with the dial and longitudinally slit, and a threaded tapering socket extending into the knob from the back thereof, whereby the socket of the knob may be screwed on to the threaded post for the purpose of flexing the slotted portion of the post in an inward radial direction to cause the post to grip an instrument shaft or spindle extending threreinto, while the back of the knob is adapted to enter the correspondingly shaped recess of the dial.

1,420,296. DRYING KILN. ROLF THELEN, Madison, Wis. Filed Mar. 2, 1921. Serial No. 449,194. 3 Claims. (Cl. 34—46.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



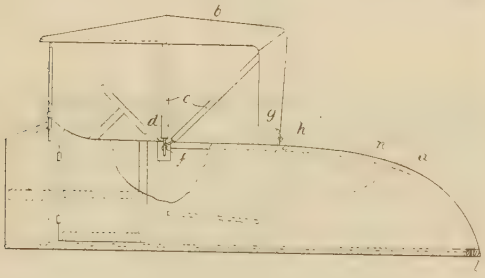
1. The combination with a progressive drying kiln, provided with suitable means for the movement through the kiln of the material being dried, said material being edge-stacked crosswise on suitable trucks, of an exhauster fan, means for driving said fan, air baffles, means for conditioning the air upon entering the kiln, and means for conditioning said air after each downward pass.

1,420,297. STRAW HOLDER. JOHN GORDON THOMPSON. London, Ontario, Canada. Filed Nov. 23, 1921. Serial No. 517,329. 3 Claims. (Cl. 65—65.)



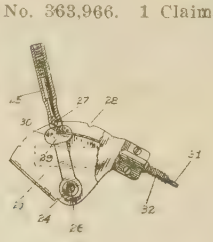
1. A straw holder for beverage dispensers comprising a bucket having an open top and inner side and means for detachably holding said bucket in engagement with the dispenser whereby it closes the open inner side.

1,420,298. CONVERTIBLE MOTOR-CAR BODY. HERBERT RICHARD WHITE, Portsmouth, England. Filed May 11, 1920. Serial No. 380,642. 2 Claims. (Cl. 296—35.)



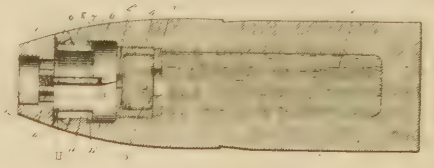
1. A car body having fixed sides, a detachable hood, a detachable cover forming the top and back which together with the sides form a boot, the floor of said boot, when the cover is removed, forming a loading space from side to side and from the back of the hood to the back of the car, a commercial body top adapted to replace said hood and boot top, said commercial body top being flush with the sides of the boot, and said loading floor space extending the full width of the body and from the roof to the floor for loading purposes.

1,420,299. DIRECTION SIGNAL FOR MOTOR VEHICLES. VICTOR R. WILL, Lodi, Calif., assignor to P-a-t-s Mnufacturing Company, Lodi, Calif. Filed Mar. 8, 1920. Serial No. 363,966. 1 Claim. (Cl. 74—39.)



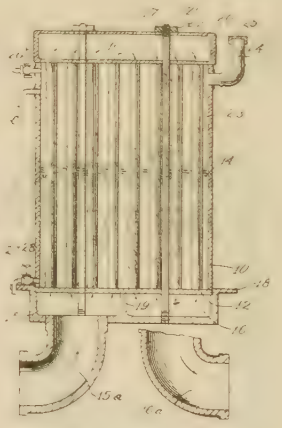
An actuator signal arm comprising a pivoted operating handle, a plate fixed on said handle and positioned in the plane of movement thereof, said plate having a plurality of orifices positioned substantially along a line at right angles to the handle, and a flexible member connected to the arm at one end and terminating at any one of the orifices at the other end.

1,420,300. SUPERSENSITIVE FUSE. CECIL G. YOUNG, U. S. Army. Filed June 4, 1919. Serial No. 301,794. 2 Claims. (Cl. 102—39.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. A fuse, including a casing formed with a beveled end, a firing pin holder connected for rectilinear sliding movement to the beveled end of the casing, a pin carried by the holder, a split ring seated on the beveled end and normally retaining the firing pin holder in unarmed position, and a primer in the casing and in position to be engaged by the firing pin.

1,420,301. AUTOMOBILE HEATER. MAX ŻWICKL, Hoboken, N. J. Filed Apr. 11, 1921. Serial No. 460,449. 7 Claims. (Cl. 237—12.3.)

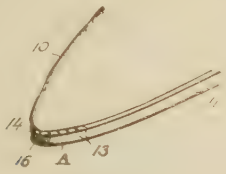


1. A steam heater for motor vehicles, including a tubular water reservoir having separate inlet and outlet chambers at one end and a transverse chamber at the other, a plurality of pipes connecting the inlet chamber with the transverse passage, a plurality of pipes connecting the transverse passage with the outlet chamber, and means for conducting motor exhaust gases to the inlet chamber.

1,420,302. TOE PROTECTOR. ROY H. ANDERSON, Allentown, Pa., assignor of one-half to H. Gibson Hastings, Allentown, Pa., and A. Harlan Elliott, Philadelphia, Pa. Filed May 31, 1921. Serial No. 473,563. 2 Claims. (Cl. 36—73.)

1. A protector adapted to be secured to the toe portion of a shoe sole, comprising a metallic member including a

base portion adapted to underlie the sole, a vertical side portion adapted to embrace the edge of the sole, and a bead

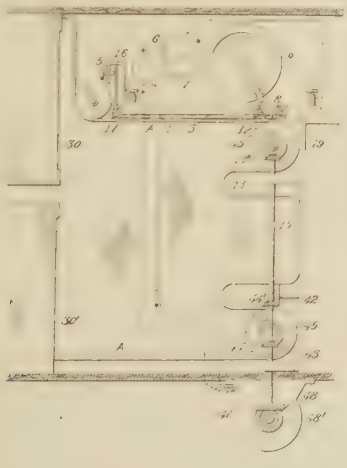


formed on and extending contiguous with and adapted to protect the surface of said side portion.

1,420,303. PROCESS FOR THE MANUFACTURE OF PULP FOR PAPER, CARDBOARD, ARTIFICIAL LEATHER, AND THE LIKE FROM PEAT. ADOLPH LIONEL BURLIN, Chorlton on Medlock, Manchester, England. Filed July 30, 1920. Serial No. 400,047. 4 Claims. (Cl. 92—14.)

1. A process for the manufacture, from freshly dug peat, of pulp adapted for paper manufacture, consisting in boiling the peat with a weak aqueous solution of soda, washing the resulting pulp mass with cold water, treating the drained said mass first with an aqueous solution of bleaching powder, then with a small quantity of an aqueous solution of bicarbonate soda and stirring, acidifying said pulp mass with a very dilute solution of any acid, washing with cold water until perfectly neutral, subsequent bleaching being performed by means of a dilute aqueous solution of 2 lbs. of bleaching powder per hundredweight of pulp, to which is subsequently added a small quantity of an aqueous solution of bicarbonate of soda, washing with cold water until perfectly neutral and free from black and brown specks and pressing into cakes in a filter press substantially as described.

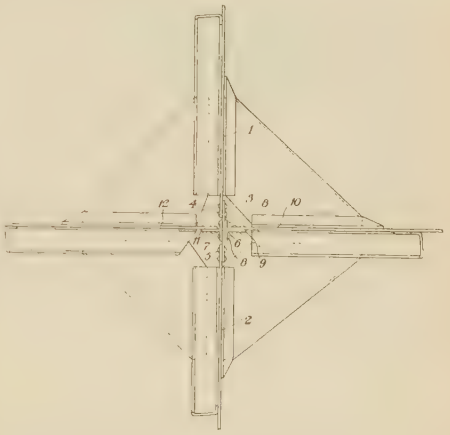
1,420,304. SOUND-RECORDING PROCESS. ALOYSIUS J. CAWLEY, Pittston, Pa. Filed Dec. 13, 1919. Serial No. 344,708. 12 Claims. (Cl. 274—46.)



2. A process of sound recording, which consists in applying a non-igniting, non-fusing, plasticizing degree of heat to a portion of the width of a film, preferably on its margin, to soften same, and vibrating a stylus in contact with said softened portion.

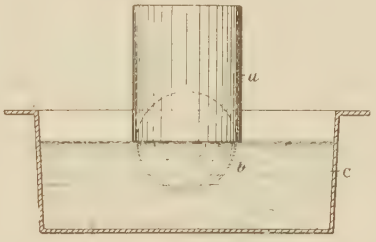
10. A sound recording device, consisting of a heater provided with heat insulators adjacent to a portion of the width of a moving film, a temperature controller, a vibrating stylus so placed as to contact with said portion before it cools, and a film vibrator to accelerate hardening by rapid vibration of said film in the air.

1,420,305. BULKHEAD AND THE LIKE. JAMES CHILDS, Wallsend-upon Tyne, and WILLIAM EVANS, Walkerville-upon-Tyne, England, assignors of one-half to Swan Hunter & Wigham Richardson Limited, Wallsend-upon-Tyne, England. Filed Jan. 12, 1921. Serial No. 436,632. 2 Claims. (Cl. 220—22.)



1. Construction of tank divided into a number of compartments for the carriage or storage of a liquid in bulk, comprising in combination a cross-section formed of parts which are connected together metal to metal throughout to provide liquid-tight joints between adjacent compartments of the tank, and plates directly secured to the said cross section to form the partitions of the tanks.

1,420,306. METHOD OF PAINTING RUBBER BALLS AND THE LIKE. FRANK A. CIGOL and LUDWIG DALLA VILLA, Paterson, N. J. Filed Mar. 8, 1921. Serial No. 450,721. 1 Claim. (Cl. 91—60.)

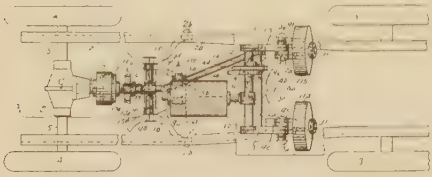


The hereindescribed method of applying fluent coats to the opposite parts of a rotund body which consists in introducing the body into a socket member which will then form a circumferential seal thereabout, then, using the socket member as a holder, applying a coat to the part of said body left exposed by said member and up to the line of the seal, thereafter removing the body from the holder and introducing it again thereinto in substantially exactly reversed position and so as again to form a seal there around, and then applying another coat to the part of said body thereupon left exposed by said member and also up to said seal.

1,420,307. MEANS FOR TURNING MOTOR VEHICLES. LAURENCE F. DELANEY, Watertown, N. Y. Filed Feb. 4, 1921. Serial No. 442,449. 4 Claims. (Cl. 180—1.)

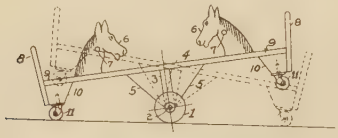
1. The combination with the chassis and the propelling shaft of a motor vehicle, of a wheel-truck disposed beneath said chassis, the rear end of said truck being pivoted, and the forward end of said truck being movable in a vertical plane, toggles connecting the forward end of

said truck with said chassis, manually controlled means for moving the wheels of said truck towards and away from the roadway, means for operating said toggles for



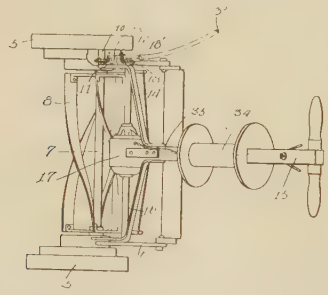
"jacking up" the forward end of the vehicle, and means for operatively connecting the wheels of said truck with said propelling shaft, for rotating said truck wheels.

1,420,308. TOY VEHICLE. JAMES WILLIAM DOUGHERTY, McKeesport, Pa. Filed Sept. 16, 1920. Serial No. 410,667. 4 Claims. (Cl. 46—22.)



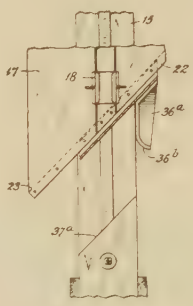
1. A toy vehicle of the kind described, comprising a balancing board, back boards secured to each end of said balancing board to form seats thereon, figure heads mounted on said balancing board in proximity to said seats, handles secured to said figure heads, a support rigidly secured to said blancing board near its middle, wheels fitted to said support to permit a see-saw, a revolving or a rectilinear motion of said balancing board, a part secured to each end of balancing board to limit the see-saw motion thereof, caster wheels secured to said part to facilitate the revolving and the rectilinear motion of said balancing board.

1,420,309. LAWN MOWER AND CLIPPER. VERNA PARIS DRAKE, Oklahoma, Okla. Filed June 14, 1920. Serial No. 388,915. 1 Claim. (Cl. 56—26.)



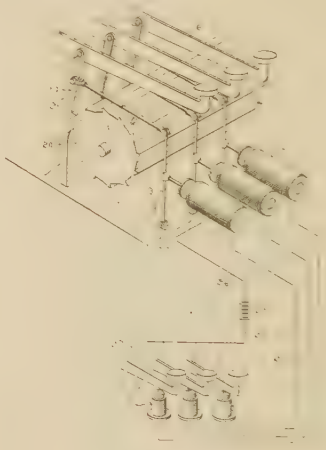
In a device of the character described, a frame, a power shaft supported by the frame, means for imparting rotary movement to the power shaft, a pinion on one end of the power shaft, a bracket supported at one end of the frame, a stub shaft supported by the bracket and carrying pinions on each end thereof, an operating shaft supported by the frame and having a pinion in mesh with one of the pinions of the stub shaft, a clutch on the operating shaft for controlling movement of the operating shaft, one of said pinions on the stub shafts being in mesh with the pinion on the power shaft, a flexible shaft having connection with the stub shaft, and clippers connected to one end of the flexible shaft to receive motion therefrom.

1,420,310. APPARATUS FOR HOISTING MATERIALS. HOWARD S. GARDNER, East Orange, N. J. Original application filed Mar. 23, 1918, Serial No. 224,177. Divided and this application filed Dec. 22, 1920. Serial No. 432,447. 2 Claims. (Cl. 214—119.)



1. In a hoisting machine, a pair of upright guideways, a bucket arranged to travel lengthwise thereof, a support at the lower end of each guideway shaped to fit the bottom of said bucket and providing a rigid rest therefor in its lowered position and devices carried by said bucket shaped to fit one surface of said supports whereby strains on the bucket in a forward direction are neutralized.

1,420,311. CASH-REGISTER SYSTEM. G MURL GORDEN, Portland, Oreg. Filed June 15, 1920. Serial No. 389,146. 2 Claims. (Cl. 235—92.)

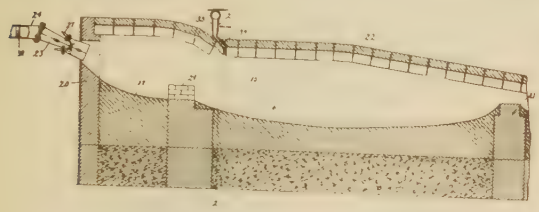


1. In combination, primary and secondary registering machines each including key levers, pawls connected to the levers of the secondary registering machine, rotating means engageable with the pawls for effecting automatic actuation of the key levers of the secondary registering machine, electromagnetic means for moving the pawls into operative relation with the last mentioned means, and means actuated by the key levers of the primary registering machine for controlling the magnetic means.

1,420,312. MELTING FURNACE. AUBREY J. GRINDLE, Chicago, Ill., assignor to Grindle Fuel Equipment Company, a Corporation of Illinois. Original application filed July 7, 1916, Serial No. 107,990. Divided and this application filed Mar. 3, 1922. Serial No. 540,668. 18 Claims. (Cl. 266—33.)

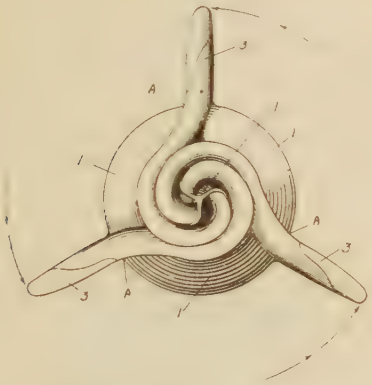
1. In a furnace, in combination, a heating chamber and hearth therefor, a combustion chamber, a floor for the

combustion chamber which is above the level of and adapted to drain freely onto the hearth of the heating



chamber, and a jet burner for introducing comminuted solid fuel held in suspension with air into the said combustion chamber.

1,420,313. AIRCRAFT PROPELLER. CHARLES S. HALL, Los Angeles, Calif. Filed Dec. 13, 1921. Serial No. 522,020. 10 Claims. (Cl. 170—156.)

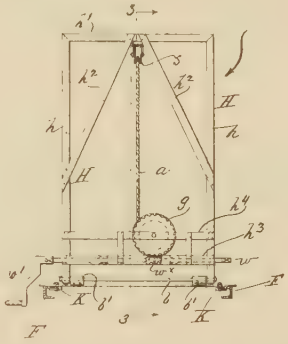


1. In an aircraft propeller having a centrally located coneshaped hub with the apex forwardly extending with respect to the normal line of flight, the profile of said hub being formed of reversely curved lines, generated at the apex thereof on a line coinciding with the longitudinal axis of the said hub and backwardly and outwardly extending and having the curvature of the said lines gradually increasing as the same approach the base thereof with propeller blades radially extending from the said base of the said hub and rotatably mounted upon the said longitudinal axis.

1,420,314. SPEED INDICATOR AND SIGNAL. OSCAR S. HASLETT, Jersey City, N. J. Filed Feb. 8, 1921. Serial No. 443,426. 9 Claims. (Cl. 175—355.)

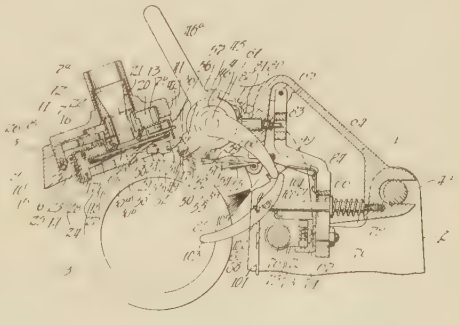
1. In an indicator of the class set forth, the combination of a casing, a member projected into the casing and movable according to variations in speed of the vehicle, a member movably attached to the speed member aforesaid, means to cause the latter mentioned member to move with and under such movements of the speed member as are determined by large changes of speed, means to control the movement of the latter mentioned member to hold it steady during smaller changes of speed of the speed member, and means carried by the second mentioned movable member to indicate such variations in speed of the vehicle as produce changes of position of said second movable member.

1,420,315. DUMPING TRUCK. ABRAM W. HERBST and CLAUDE C. J. CULMER, New York, N. Y., assignors to Economy Hoist & Body Co., Inc., New York, N. Y. Filed Mar. 23, 1921. Serial No. 454,747. 2 Claims. (Cl. 298—19.)



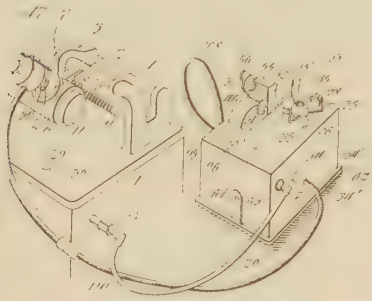
1. In a dumpage vehicle of the character designated, in combination, two fulcrum bridge plates mounted on the vehicle frame, and extended from one longitudinal member to the other with a knuckle bearing near each end, a hoist frame and a mechanism pivotally supported upon and above one of said bridge plates, and a container pivotally supported upon and above the other said bridge plate, and a hoist cable connecting the forward end of said container with said hoist mechanism, said fulcrum bridge plates being independently adjustable upon the vehicle frame and with relation to each other, for the purpose described.

1,420,316. PHONOGRAPH. NEWMAN H. HOLLAND, West Orange, N. J., assignor to New Jersey Patent Company, West Orange, N. J., a Corporation of New Jersey. Filed Dec. 26, 1917. Serial No. 208,777. 102 Claims. (Cl. 274—30.)



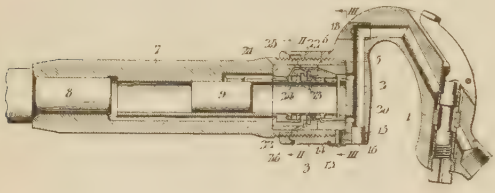
1. In a device of the character described, a sound box body member provided with a diaphragm, a floating weight mounted so as to be capable of moving freely with respect to said diaphragm, a stylus mounted upon said weight and adapted to co-operate with said diaphragm, and a stylus co-operating with said diaphragm and substantially rigidly connected thereto, substantially as described.

1,420,317. SOUND-RECORDING APPARATUS. NEWMAN H. HOLLAND, West Orange, N. J., assignor to New Jersey Patent Company, West Orange, N. J., a Corporation of New Jersey. Filed Nov. 30, 1914, Serial No. 874,672. Renewed December 16, 1920. Serial No. 431,275. 20 Claims. (Cl. 179—6.)



3. The combination with an electric circuit containing a source of current supply, a telephone transmitter, and a recorder, of means whereby a telephone receiver may be supported in position to impress on said transmitter undulations corresponding to sound waves, and a branch circuit connected to said first named circuit and containing a telephone receiver, substantially as described.

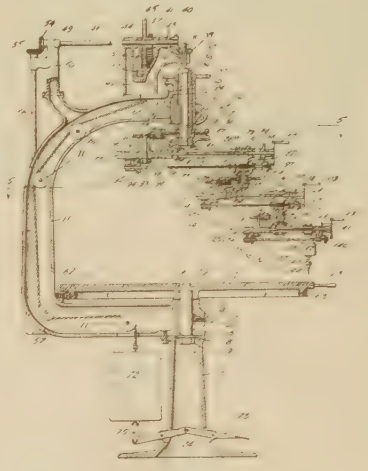
1,420,318. PNEUMATIC TOOL. WILLIAM H. KELLER, Grand Haven, Mich. Filed July 8, 1918. Serial No. 243,754. 3 Claims. (Cl. 121—25.)



1. In a pneumatic tool, the combination of a handle provided with a forwardly projecting extended annular casing-seat, having an internal thread, said seat being provided, at the region adjacent to the handle with a plurality of radial holes; a casing having its rear extremity externally threaded in correspondence with the thread upon the casing-seat, and having, at its inner extremity, a relatively large plurality of slots corresponding substantially in transverse diameter with the holes of the casing-seat, but arranged at angular intervals which differ from those of the latter; a pin adapted to be inserted endwise and extend through any one of said holes and into the slots of the casing; and means embracing said casing seat for retaining said pin in inserted position in any one of said holes.

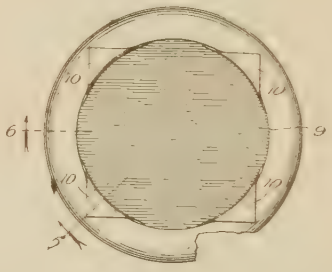
1,420,319. METAL-ROUTING MACHINE. GEORGE L. KELLEY, Buffalo, N. Y. Filed Mar. 12, 1921. Serial No. 451,859. 45 Claims. (Cl. 33—27.)

1. In a machine of the character described, tool-supporting and guiding means comprising in combination, a rotatable device having a major axis of revolution, a gyratory device supported from said rotatable device and having an independent axis of rotation, whereby said gyratory device is adapted to revolve about said major axis with said rotatable device and to rotate about its independent axis, a tool holder connected to said gyratory device, and selective means connecting said rotatable device and said gyratory device and actuated by movement of said rotatable device about its axis for rotating said



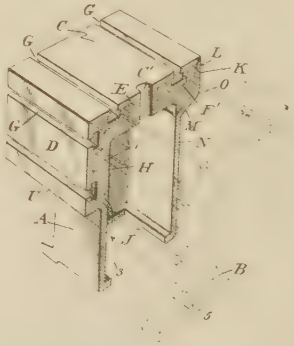
gyratory device in or counter to the direction of revolution of said rotatable device.

1,420,320. BOTTLE CLOSURE. JOHN KELLY, Chicago, Ill. Filed Oct. 5, 1921. Serial No. 505,675. 2 Claims. (Cl. 215—51.)



1. A bottle-closure comprising a substantially square sheet of material shaped to form a circular central portion adapted to fit within the opening in the mouth of a bottle, and corner portions extending from said central portion and adapted to lie flat on the top of the bottle, the closure being free from parts extending above the plane of the corner portions.

1,420,321. BOX TABLE. DAVID C. KLAUSMEYER, Cincinnati, Ohio, assignor to The Cincinnati Bickford Tool Company, Oakley, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 12, 1921. Serial No. 451,872. 10 Claims. (Cl. 90—58.)



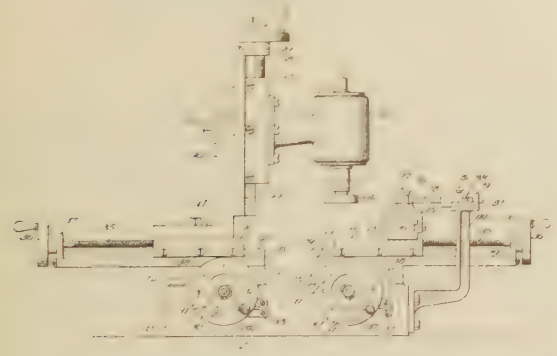
1. A one-piece shell-like box-table comprehending a hollow rectangular column having its four walls extend-

ing upwardly substantially in parallelism and then each diverging outwardly and upwardly and then again extending for a short distance in parallelism to meet a horizontal flat wall integral therewith serving as a top-platen; the interior surfaces of said box-table being free from culs-de-sac and contoured to lead continuously downwardly.

1,420,322. CANDLE WICK. WILLIAM C. KREUZER, Syracuse, N. Y., assignor to The Will & Baumer Company, Syracuse, N. Y., a Corporation of New York. Filed Nov. 24, 1920. Serial No. 426,185. 1 Claim. (Cl. 87—21.)

A candle wick having one end tipped with sealing wax applied thereto while in a plastic state.

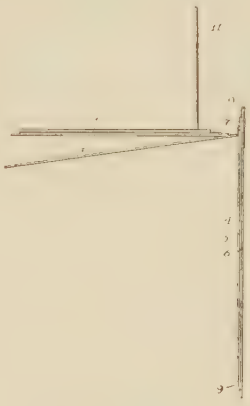
1,420,323. MACHINE TOOL. JOHN LA ROCK, Chicago, Ill. Filed Dec. 17, 1918. Serial No. 267,217. 18 Claims. (Cl. 29—33.)



1. A universal, multi-work machine tool comprising a base, a work rest, a column supported on said base, a compound slide rest supported on said column, embracing members which have, respectively, vertically slidable and vertically swingable adjustment relatively to the column, means to lock the vertically slidable member constructed to permit it to be raised and lowered during the operation of the machine, and a motor mounted on the vertically slidable member of said rest.

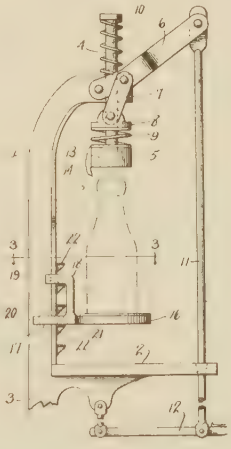
1,420,324. LEAFED ARTICLE. GEORGE S. LEWIS, Rochester, N. Y. Filed Mar. 2, 1921. Serial No. 449,155. 5 Claims. (Cl. 281—15.)

1. A leafed article having leaves which are hinged, one to the next in rear thereof at a point removed from the hinge of the leaf in rear thereof so that a pull on the



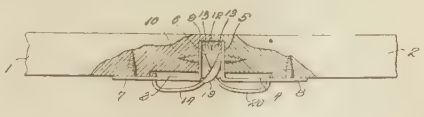
foremost leaf will be transmitted to any desired number of leaves in rear of such foremost leaf.

1,420,325. BOTTLE-CAPPING MACHINE. EARL W. LITTLE, Indianapolis, Ind. Filed Oct. 5, 1921. Serial No. 505,664. 3 Claims. (Cl. 226—84.)



1. A bottle capping machine comprising a frame, a vertically adjustable bottle support pivotally connected with the frame, a capping head, a stem connected with the same and passing through a portion of the frame, spring means for holding the head in raised position, a member slidably mounted on the stem, a spring located between the same and the head, a lever pivoted to the frame and a link connecting the lever with the sliding member.

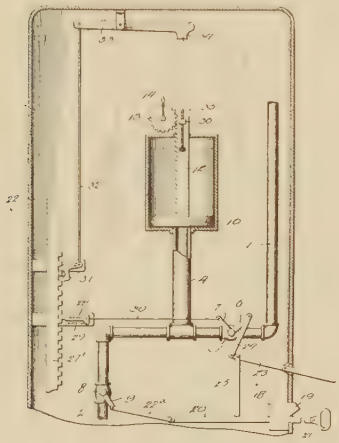
1,420,326. CONCEALED HINGE. NELS J. LUNDEEN, Tacoma, Wash. Filed Dec. 8, 1920. Serial No. 429,117. 3 Claims. (Cl. 16—164.)



3. An invisible hinge, a pair of plates, each having an elongated slot therethrough and each provided with a

right angle portion, a pair of hinge members having a sidewise interlocking slip connection with each other, one end of each hinge member being pivotally connected to the right angle portion of one of said plates, while its other end is slidably mounted in the elongated slot of the other plate, and an abutment on the end of each hinge member within said elongated slot, adapted to engage the end wall of the slot when the hinge is in extended position.

1,420,327. LIQUID-DISPENSING MACHINE. CHARLES O. MCCASLAND, St. Louis, Mo. Filed Aug. 5, 1920. Serial No. 401,466. 6 Claims. (Cl. 221—112.)



1. The combination with a commercial gasoline dispensing pump having the usual rack bar, a preliminary lock adapted to engage and lock the said bar against movement, means to release said lock, a measuring tank, means operated by a predetermined quantity of liquid in said tank to lock said bar against movement, a supply pipe and a discharge pipe for said tank, and a valved control for said pipes.

1,420,328. PROCESS OF MAKING ALLOY STEEL. JOHN MCCONNELL, Chicago, Ill., assignor to Interstate Iron and Steel Company, Chicago, Ill., a Corporation of Illinois. Filed June 5, 1920. Serial No. 386,793. 2 Claims. (Cl. 75—45.)

1. The herein described step in the process of manufacturing open hearth alloy steel consisting in the admixture with the molten metal as it flows from the furnace into the ladle of a charge of crushed alloying metal and shot aluminum having a lower melting point than the alloy.

1,420,329. RIM FOR THE WHEELS OF MOTOR CARS AND OTHER VEHICLES. WILLIAM WILSDEN MCRAE, Waituna, Waikari, New Zealand. Filed Dec. 12, 1918. Serial No. 266,383. 2 Claims. (Cl. 301—35.)

1. A divisible tire-carrying rim, comprising an inner rim member and an outer rim member, each having a web portion and a bead around one of its lateral sides, the web portion of the inner rim member being adapted to fit telescopically within the web portion of the outer member, said inner member having in its web portion a plurality of open-ended transverse slots extending from that edge of the inner rim member that is nearer to the bead of the outer rim member, radially disposed threaded studs carried by the outer rim member in position to engage said slots, a plate adapted to receive the end of each of said studs after its passage through its slot, a nut for securing said

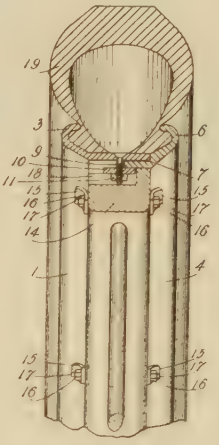


plate in position, and means carried by the free edge of the inner rim member for preventing rotation of said plate on said stud.

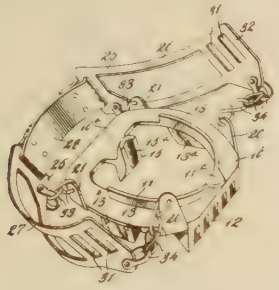
1,420,330. ARTIFICIAL FOOT. GEORGE E. MARKS and WILLIAM L. MARKS, Sound Beach, Conn. Filed Aug. 23, 1921. Serial No. 494,692. 4 Claims. (Cl. 3—7.)

4. An artificial foot comprising an inelastic core, a body portion of rubber below and forward of said core and extending from the heel to the toe portion of the foot, a cord inner sole extending from within the heel to the toe portion of the foot and conforming in outline to the general horizontal outline of the foot, said inner sole being embedded in said body portion and comprising diagonally disposed crossing sets of parallel cords of strong texture spaced apart and forming coarse meshes filled with rubber, a fabric-covered spring of the character described embedded in said rubber body portion above said inner sole and extending from within the heel to the toe portion of the foot, and a mattress of cords and rubber located in said body below the forward end of said core to take the thrusts thereof and thence extending forwardly above the forward portions of said spring and inner sole.

1,420,331. NONSKID DEVICE FOR HORSESHOES. EMIL C. W. MEYER, Cleveland, Ohio. Filed Apr. 25, 1919, Serial No. 292,544. Renewed Nov. 19, 1921. Serial No. 516,511. 1 Claim. (Cl. 168—30.)

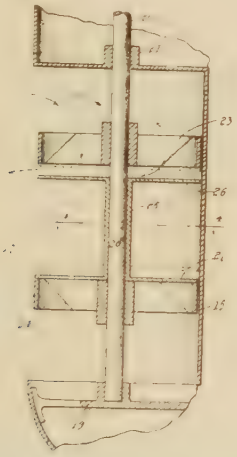
An attachment for shoes comprising a continuous member for engagement with the wearing surface of the shoe, an upstanding flange formed along the inner edge of said member, a nib projecting forwardly from said flange and adapted to engage the shoe, calks formed on the under surface of said continuous member, one of said calks being located on the transverse rear portion of said continuous member, said last-mentioned calk being

projected above the plane of said continuous member and adapted to engage the shoe, a girdle adapted to surround



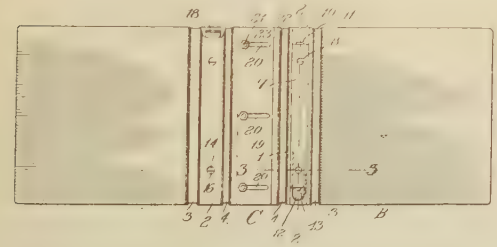
the hoof, said girdle comprising side plates flexibly connected at the front and rear, and link connections between said girdle and said continuous member.

1,420,332. WAVE MOTOR. LEON MITELMAN, Chicago, Ill. Filed June 2, 1921. Serial No. 474,343. 7 Claims. (Cl. 253—5.)



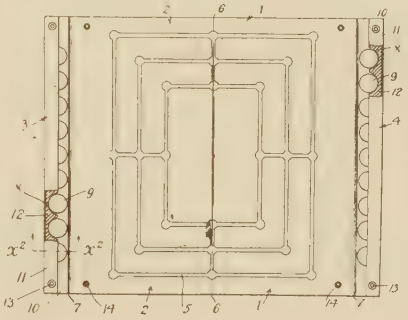
1. A motor comprising a float, an elongated casing rigidly secured thereto and below the water-line of said float, a rotatable shaft positioned in said casing and extended upwardly out of the same, means for mounting said shaft, rotatable devices secured to said shaft within said casing in spaced relation to each other, one of said devices affected by the passage of water through said casing in one direction and the other device affected by the passage of water in the opposite direction, whereby said shaft is continuously rotated in a given direction.

1,420,333. LOOSE-LEAF BINDER. ERIC C. MOORE, Rochester, N. Y. Filed Feb. 14, 1920. Serial No. 358,747. 6 Claims. (Cl. 129—13.)



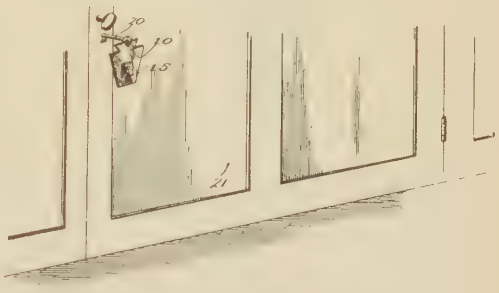
1. In a loose leaf binder, the combination with a pair of covers, of a two-part back rigidly connecting them in hinged relationship, the parts of said back being adjustable one upon the other to change the degree of separation of the two covers, and two detachable interchangeable sets of impaling posts of different length each adapted to be carried by one cover and to cooperate with the other.

1,420,334. GAME BOARD. MARTIN C. NEUNER, Los Angeles, Calif., assignor of one-third to Clarence M. Neuner and Oscar C. Reichert, both of Los Angeles, Calif. Filed Jan. 12, 1921. Serial No. 436,699. 3 Claims. (Cl. 46—21.)



1. In a game board, the combination of two sections hinged together, one of the sections being provided with pockets to receive the chips used in playing the game and the distance from the bottom of each pocket to the hinge being but slightly greater than the diameter of the chips.

1,420,335. KEY HOLDER. CHALMER L. OBERLANDER, Bucyrus, Ohio. Filed Oct. 29, 1921. Serial No. 511,263. 2 Claims. (Cl. 40—2.)

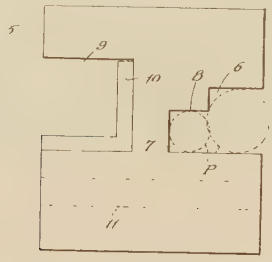


1. A key holder, comprising a plate to which a key may be attached, said plate having an offset formed centrally therein adapted to provide a receptacle in which an article may be placed, and a spring finger having its one end secured to the plate and its free end extending over the offset and adapted to hold the article within the receptacle.

1,420,336. PIPE-BENDING DEVICE. JOHN J. O'REILLY, Brooklyn, N. Y. Filed Aug. 26, 1919. Serial No. 319,915. 5 Claims. (Cl. 153—32.)

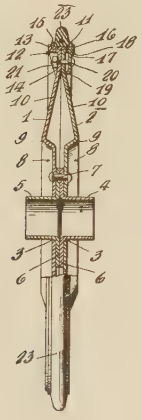
3. A pipe bending device comprising a block having a base and head with the intermediate portion cut-away

at both sides of the block leaving a web therebetween connecting the head and base, said head provided with



faces at different elevations relatively to the base and being rotatable to bring either face above opposite cut-away portions.

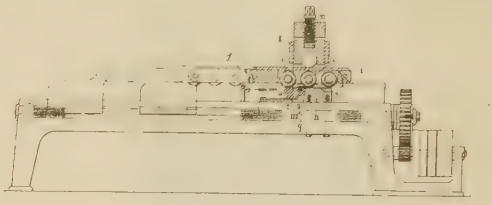
1,420,337. DISK WHEEL. GEORGE H. PALMER, Lansing, Mich., assignor to Dail Steel Products Company, Lansing, Mich., a Corporation of Michigan. Filed Dec. 8, 1921. Serial No. 520,956. 5 Claims. (Cl. 301—63.)



1. A disk wheel formed of two substantially like members each with an axial opening, sleeves inserted in the openings of said members and having flanges disposed between adjacent portions of the members, said flanges being in close contact with each other and said members in close contact with said flanges and means passed through said flanges and members, said members being dished adjacent the openings therein and said means disposed within the dished portions.

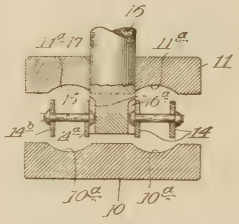
1,420,338. MANUFACTURE OF BLADING FOR TURBINES. CHARLES ALGERNON PARSONS, ALFRED QUINTIN CARNEGIE, and MATTHEW BONE, Newcastle-upon-Tyne, England; said Carnegie and said Bone assignors to said Parsons. Original application filed June 7, 1921, Serial No. 475,789. Divided and this application filed Feb. 15, 1922. Serial No. 536,811. 9 Claims. (Cl. 29—23.5.)

1. Machine for manufacturing turbine blades integral with their bases from blanks, comprising in combination a former-bed having a recess therein to receive part of said blank forming the base, and having a die formation, and means for performing a succession of progressive operations upon one face only of another part of the blank



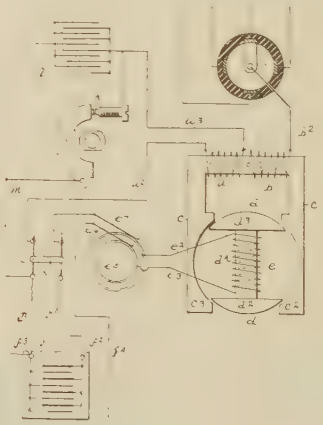
longitudinally of said die formation to flow the metal of said blank along the die formation, and thereby to form the blade and give it the desired cross section.

1,420,339. ANTIFRICTION BEARING. HARRY N. PARSONS, Chicago, Ill., assignor to U. S. Ball Bearing Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 24, 1919. Serial No. 340,168. 10 Claims. (Cl. 29—84.)



1. In a ball bearing, a pair of adjacent raceways, a pair of adjacent rows of balls therein, a riveted separator for each row of balls and an opening between adjacent raceways adapted to receive a tool for holding a separator while being riveted.

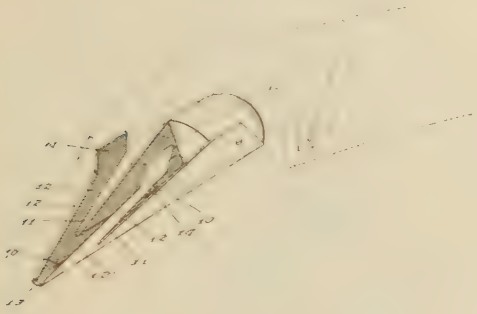
1,420,340. IGNITING APPARATUS. CARL E. PEARSON, Lansing, Mich. Filed Aug. 27, 1917. Serial No. 188,363. 1 Claim. (Cl. 123—148.)



In an ignition system for internal combustion engines, the combination of a dynamo having a field magnet with a soft iron core, an armature with a soft iron core adapted to rotate between the poles of the field magnet, the field magnet being wound to constitute a sparking

coil, the armature core being wound with an energizing coil, a make-and-break device in circuit with windings on the field magnet, a battery and means for throwing said battery in circuit with said make-and-break device and the windings in the field magnet, or in circuit with said energizing coil.

1,420,341. TOOL FOR SECTIONALIZING CITRUS FRUITS. RALPH B. POLK, Greenwood, Ind. Filed Jan. 18, 1922. Serial No. 530,178. 4 Claims. (Cl. 146—7.)

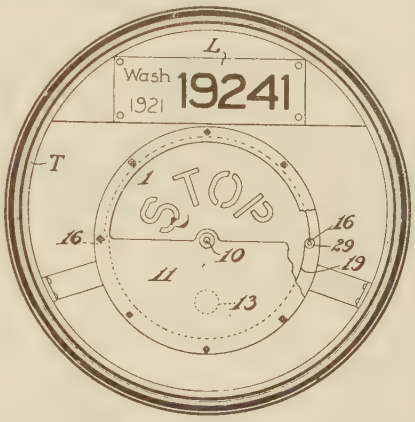


1. A tool of the class described comprising a pair of divergent members having cutting edges and forming a trough the edges being supported in such manner as to be movable toward and from each other to vary the cross-section of the trough.

1,420,342. CONNECTION FOR KNIFE HANDLES AND BLADES. JOSEPH A. RICHARD, Southbridge, Mass. Filed Nov. 6, 1920. Serial No. 422,212. 1 Claim. (Cl. 30—9.)

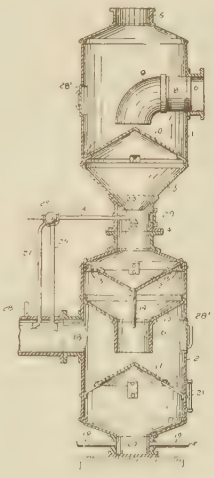
A device of the type described, including a tubular knife-handle, a blade having an extended rectangular shank received within said handle, a slit ferrule applied to the inner end of the handle, its slit engaging the inner end of the blade shank a rod inserted into said tubular handle and having an attenuated terminal provided with a lateral lug, said blade-shank having an eye receiving said lateral lug, and a sleeve arranged interiorly of said handle and having internal threaded connection with said rod and unthreaded with respect to the wall of the bore of said handle.

1,420,343. VEHICLE SIGNAL. WALTER E. ROOT, Seattle, Wash. Filed July 5, 1921. Serial No. 482,411. 7 Claims. (Cl. 116—47.)



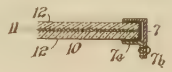
1. A vehicle signal comprising a disk carrying a signal and a half disk in a parallel plane adapted to mask a half of said disk, said disk and half disk being relatively rotatable, cooperating limit stops for positioning the rotatable member in signaling or in non-signaling positions only, and means for rotating the rotatable member.

1,420,344. DESUPERHEATER. LEO J. SCHAEDLE, Pittsburgh, Pa. Filed Jan. 23, 1920. Serial No. 353,512. 12 Claims. (Cl. 122—479.)



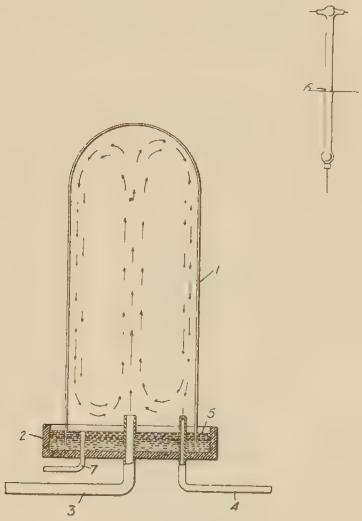
1. The combination of a drum, means for admitting superheated steam into the same, outlet means leading a portion of the superheated steam from the drum, a second drum communicating with the first drum, means for increasing the velocity of a portion of the steam at some period of its travel from the first drum to the second drum, means for admitting water into the steam during its increased velocity, and means, depending upon the degree of saturation of the steam in the second drum, for admitting water to the last named means when the saturation is below a predetermined degree and cutting off the water when the saturation is of said degree.

1,420,345. DANGER SIGNAL. FRANK SHUMAN, Philadelphia, Pa.; Y. Josephine Shuman and Charles H. Dunker, administrators of the estate of said Frank Shuman, deceased, assignors to Louis J. Kolb, Philadelphia, Pa., trading as Safetee Glass Company. Filed Mar. 23, 1916. Serial No. 86,175. 6 Claims. (Cl. 40—135.)



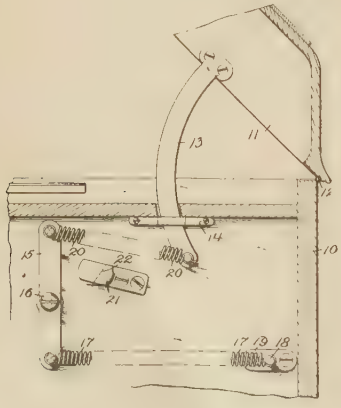
1. In a danger signal, the combination of a reinforced danger signal transparency consisting of two sheets of glass secured together by an interposed binding sheet of adhering material, a metal frame in which the transparency is secured about its perimeter, and a lantern for illuminating the transparency from one side.

1,420,346. PHOTOCHEMICAL PROCESS. WALTER O. SNELLING, Allentown, Pa. Filed Mar. 6, 1917. Serial No. 152,589. 9 Claims. (Cl. 23—24.)



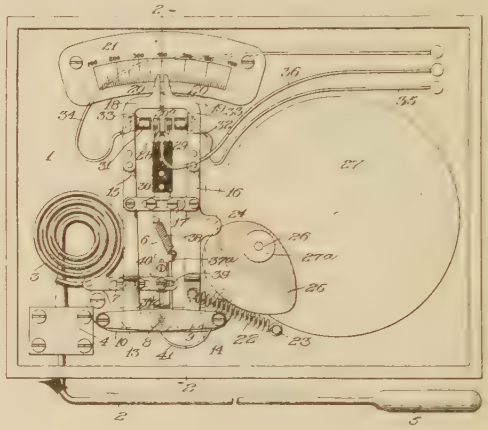
2. The process which comprises circulating a body of photochemically reactive fluid by the action of actinic rays.

1,420,347. DEVICE FOR RAISING AND SUPPORTING COVERS. FRANK A. SPENCER, West Orange, N. J. Filed Dec. 27, 1921. Serial No. 525,122. 6 Claims. (Cl. 217—60.)



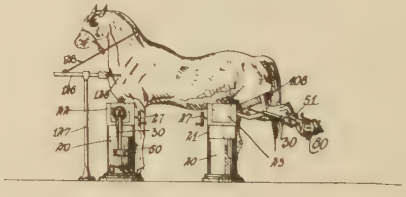
1. A device for raising and supporting a cover comprising a rod adapted to be attached to a cover, a spring for supporting the cover when raised, a connection between the spring and the rod, said connection including a second spring for initiating the raising of the cover, and a stop for limiting the movement of the connection so that the second spring is under increased tension when the cover is down.

1,420,348. CONTROLLING MECHANISM. LEWIS B. SWIFT, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a Corporation of New York. Filed Sept. 6, 1917. Serial No. 190,092. 8 claims. (Cl. 236—46.)



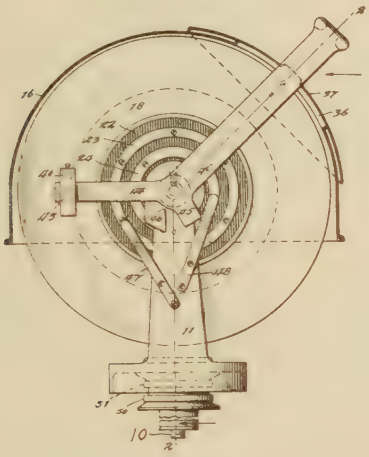
5. In a temperature controlling mechanism, the combination of a pair of relatively movable arms carrying opposed spaced electric contacts, a pivoted arm, a contact on said pivoted arm interposed between said first mentioned contacts and adapted to co-operate therewith, a temperature controlled member, a link connecting said temperature controlled member to said pivoted arm, and means for varying the space between said contacts to limit the movements of said pivoted arm.

1,420,349. APPARATUS FOR USE IN SHOEING HORSES. ALEX SZABO, Perth Amboy, N. J. Filed Nov. 1, 1921. Serial No. 512,011. 6 Claims. (Cl. 119—98.)



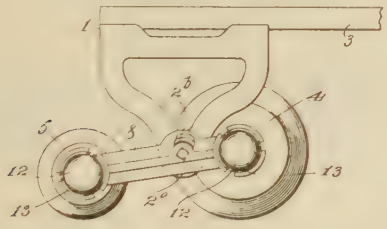
1. In an apparatus of the type described, a device adapted to engage and hold the leg of an animal, a tubular pedestal therefor, a tubular standard surrounding and revoluble on said pedestal and carrying said device, and means for locking said standard against rotation on said pedestal, said means comprising a pair of latch-bolts pivoted to the standard and adapted to engage in notches in the pedestal, and a pair of links connected to the respective latch-bolts and to each other, one of said links being extended to form an operating handle.

1,420,350. TROLLEY REEL. ADOLPH ARTHUR THIELE, Omaha, Nebr., assignor to American Smelting and Refining Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 2, 1920. Serial No. 362,696. 15 Claims. (Cl. 191—12.)



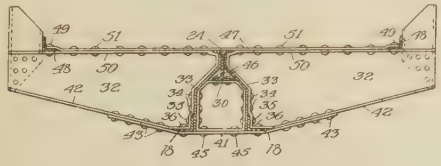
9. In a device of the class described, the combination of a support, a drum mounted thereon, a flexible conductor wound on said drum and having a part leading therefrom, said arm provided with means tending to maintain the same in a normal position.

1,420,351. SOIL-PULVERIZING IMPLEMENT. JOSEPH F. WAGNER, Berea, Ohio, assignor to The Dunham Company, Berea, Ohio, a Corporation of Ohio. Filed Dec. 29, 1920. Serial No. 433,759. 15 Claims. (Cl. 55—77.)



1. In an earth working implement, including a draft frame and front and rear loosely mounted disc gangs and independent axle members, and oscillatory gang bearing members detachably connected to said gang axle members and to the outside of said draft frame whereby said gang bearing members may be detached outwardly from said draft frame and longitudinally of the ends of said axle members and the discs of said gangs be removed from said axle members.

1,420,352. UNDERFRAME FOR CARS. ROBERT R. WEAVER, Chicago, Ill., assignor to General American Tank Car Corporation, Chicago, Ill., a Corporation of West Virginia. Filed Oct. 17, 1921. Serial No. 508,139. 11 Claims. (Cl. 105—416.)

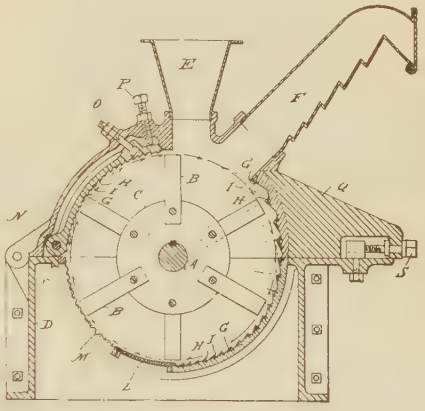


1. A center sill for a car extending substantially the full length of the car and formed with side walls at its upper portion spaced apart a less distance than the width of the sill at its lower portion, and a beam having upper and lower flanges extending longitudinally of the sill substantially the full length of the car and interposed at its web portion between the upper portions of said side walls and secured to said side walls.

1,420,353. DIRECTION INDICATOR. JAMES ARTHUR WHITE, Galt, Ontario, Canada. Filed Feb. 12, 1921. Serial No. 444,454. 1 Claim. (Cl. 248—3.)

Means for adjustably supporting an arm comprising a split clamp adapted to embrace the arm; a pair of bolts adapted to tighten the clamp; an attaching lug integral with the clamp and extending in a plane parallel to the axis of the clamp; an attaching lug pivoted on one of the clamp bolts; and a bolt adapted to draw the attaching lugs toward one another.

1,420,354. CRUSHER AND PULVERIZER. MILTON F. WILLIAMS, St. Louis, Mo., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo., a Corporation of Missouri. Filed Oct. 28, 1921. Serial No. 511,063. 3 Claims. (Cl. 83—11.)

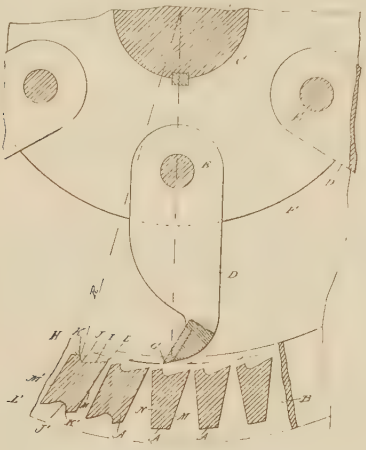


1. In a pulverizer or disintegrator, the combination with a rotor, of a casing disposed eccentrically with respect thereto whereby to provide a gradually diminishing space between said rotor and said casing, said casing having a series of reentrant angles of gradually diminishing depths disposed around the face of the casing, said angles having rounded bottoms and the shorter side of said angles extending radially of the rotor.

1,420,355. BAR CAGE FOR GRINDERS. MILTON F. WILLIAMS, St. Louis, Mo., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 25, 1921. Serial No. 517,755. 6 Claims. (Cl. 83—11.)

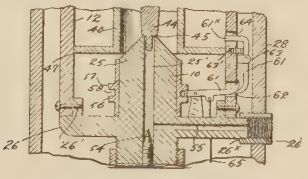
1. The combination with rotary hammers, of an arcuate cage comprising bars separated to form discharge openings, and each bar having a recess on its inner face formed by a surface lying in substantially a radial plane through the cage center and intersecting an inner face of the bar forming a cutting edge, and a concave surface connecting said cutting edge and radial surface with a surface that intersects the front side face of said bar and forms a primary cutting edge at the front adjacent dis-

charge opening,—said concave forming a deflecting surface adapted to direct the material being reduced on the



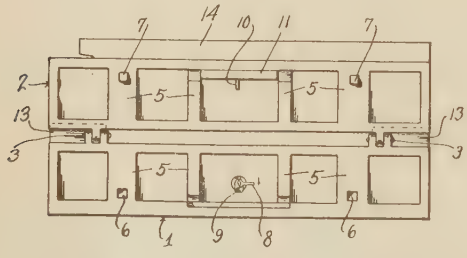
primary cutting edge into the path of the hammers and in front of said radial plane surface forming a secondary cutting edge for further reduction.

1,420,356. CARBURETOR. WALTER E. WILSON, Paxico, Kans. Filed Mar. 18, 1920. Serial No. 366,811. 2 Claims. (Cl. 261—46.)



2. In a carburetor the combination with the body having a main air-inlet, a fuel nozzle, a movable valve carried by said body acting to restrict the opening for air around said nozzle and controlled by the vacuum created by the engine, a movable choke sleeve extending around said nozzle, a manually operated lever for moving said sleeve into a position adjacent the opening of said valve, and a spring controlled lever to lock said valve acauated by the movement of the first mentioned lever.

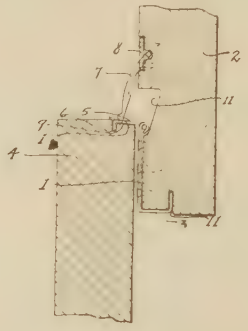
1,420,357. DERAILER. JOSEPH ZAWODNY, Henryetta, Okla. Filed Oct. 27, 1921. Serial No. 510,741. 5 Claims. (Cl. 246—163.)



1. A de-railer of the class described comprising a stationary part, a movable part and means for automatically locking the movable part to the stationary part.

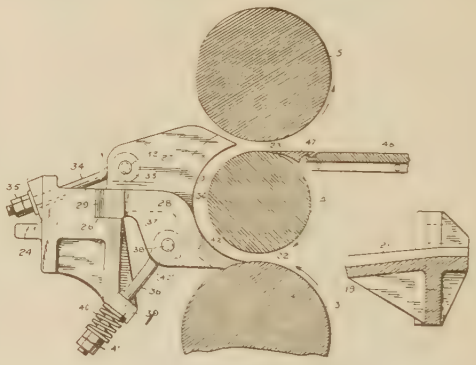
1,420,358. WINDOW LOCK. DE FAY ZUMWALT, El Paso, Tex. Filed Aug. 20, 1921. Serial No. 493,856. 1 Claim. (Cl. 292—210.)

In combination with the upper and lower sash of a window, the upper sash being suitably mortised to snugly receive the elements, a sash lock comprising a holding strip fastened to the front face of one of the lower corners of the upper sash, and having its lower end bent back at right angles to engage the under edge of the said sash;



a catch hinged to the upper end of the said holding strip and adapted to open out and down to engage the lower sash; and a brace hinged to the upper sash and adapted to engage the said catch to hold it in engagement with the lower sash.

1,420,359. METHOD OF OPENING SHEET-METAL PACKS. CARL J. ANGSTROM, Pittsburgh, Pa., assignor of one-half to S. Diescher & Sons, Pittsburgh, Pa., a Partnership. Filed Sept. 13, 1920. Serial No. 410,071. 1 Claim. (Cl. 29—19.)

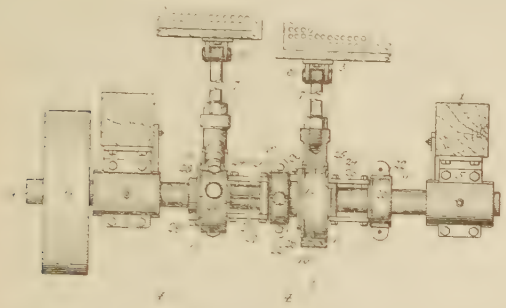


The method of opening packs of sheet metal which consists in giving the pack a curvature and then causing the pack to be given a transverse pressure progressively moving from one edge to the opposite edge of the pack, and at the same time causing the pressure at opposite sides of the pack to travel at different speeds.

1,420,360. MECHANICAL MOVEMENT. MALCOLM L. BARBEAU and FREDERICK S. WEBER, Silver Creek, N. Y., assignors to The S. Howes Co. Inc., Silver Creek, N. Y., a Corporation of New York. Filed Aug. 6, 1918. Serial No. 248,629. 2 Claims. (Cl. 74—1.)

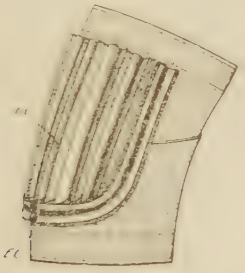
2. A mechanical movement for reciprocating two parts in opposite directions comprising a rotary driving shaft, two eccentric straps connected respectively with said parts, two eccentrics which receive said straps and which have their centers on diametrically opposite sides of said shaft, radial guides which are arranged on said shaft and upon which said eccentrics slide, and means for simultaneously adjusting said eccentrics radially relatively to said shaft comprising two shifting members movable lengthwise on said shaft but compelled to turn therewith, a pair of links connecting each shifting member with one of said eccentrics, the pivotal connections between one pair of said links and the respective shifting member and eccentric being reverse of the corresponding pivotal connections between the other pair of

links and its shifting member and eccentrics, a yoke connected with said shifting members so as to be movable therewith parallel with said shaft but incapable of turning therewith and provided with an internally threaded



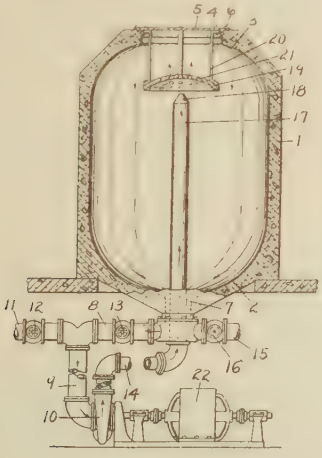
opening, and an adjusting shaft arranged parallel with said driving shaft and capable of turning but held against longitudinal motion and having an external screw thread which engages with said internally threaded opening.

1,420,361. PROTECTOR. CHARLES F. BENNETT, Chicago, Ill., assignor to Bennett Elastic Web Co. Filed Jan. 23, 1922. Serial No. 531,267. 2 Claims. (Cl. 2—130.)



1. A protector comprising two strips of material with their edges at the center portions adjacent and fastened together, and their ends overlapping, the ends of the double strip thus formed being fastened together to form a tubular member, said tubular member having cushioning material attached thereto.

1,420,362. PAPER-STOCK-TREATING MACHINE. MILTON C. J. BILLINGHAM, Kalamazoo, Mich. Filed Sept. 1, 1920. Serial No. 407,468. 6 Claims. (Cl. 92—20.)



1. In a stock treating machine, the combination of a vertically disposed cylindrical tank having an internally concave bottom with a central discharge opening therein and an internally curved top having a centrally located manhole therein, a cover for said manhole, a pump having its intake connected to said tank discharge, a discharge pipe for said pump disposed through said discharge opening centrally and vertically of said tank and provided with a discharge nozzle positioned at the upper end of the tank, and a horizontally disposed concave foraminated plate suspended from said manhole cover above said nozzle to receive the stream therefrom.

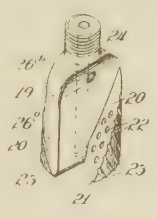
1,420,363. ONE-PIECE METALLIC GALLEY. HARRY W. BOLENS, Port Washington, Wis. Filed Nov. 22, 1920. Serial No. 425,727. 1 Claim. (Cl. 276—40.)

A one-piece metallic rectangular galley comprising a flat bottom, a peripheral portion directed downwardly therefrom for a short distance, a horizontal portion outwardly directed for a short distance from said peripheral portion and thence upwardly for a short distance and bent inwardly to a point in line with the outward vertical face of the side peripheral portion and extending straight upward therefrom so that sides are formed, the inner faces of which are upon a plane approximately paralleling the terminal edges of the bottom and insure side and end supports for printer's type.

1,420,364. EXPLOSIVE COMPOSITION. LEON O. BRYAN, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Jan. 6, 1922. Serial No. 527,488. 9 Claims. (Cl. 52—6.)

8. An explosive composition comprising more than 25% of nitrocellulose, from about 1 to 10% of a liquid explosive, and from about 0.3 to 5% of powdered aluminum.

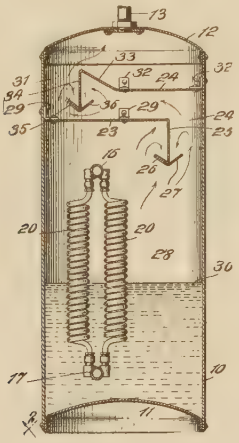
1,420,365. MEANS FOR BORING WELLS. MATTHEW T. CHAPMAN, Aurora, Ill., assignor to The American Well Works, Aurora, Ill., a Corporation of Illinois. Filed Oct. 28, 1918. Serial No. 260,044. 12 Claims. (Cl. 255—61.)



5. A rotary boring tool, comprising a body portion of materially less thickness than width, and an extension

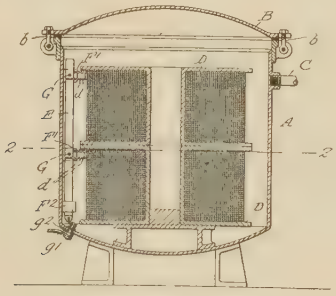
projecting from one face of the body at one side thereof, said extension being provided with passages for conducting small particles of abrasive material below its lower face.

1,420,366. EVAPORATOR, FEED WATER HEATER, AND THE LIKE. HOWARD C. DAVIS, Elizabeth, N. J., assignor to American Marine Equipment Corporation, New York, N. Y., a Corporation of Delaware. Filed Sept. 19, 1918. Serial No. 254,806. 9 Claims. (Cl. 183—32.)



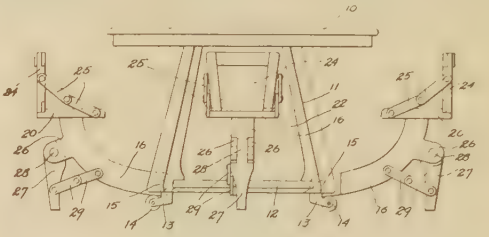
1. In apparatus of the character described comprising a casing, steam heating means therein and connections therefor, said casing being adapted to contain a liquid partly submerging said steam heating means, a solid baffle plate within said casing covering said heating means from above and extending transversely nearly across the diameter of the casing and having at its free edge a downwardly extending member at whose inner edge is a trough for receiving particles of water from the lower side of said plate and directing the same to the inner wall of the casing, a throat space for ascending vapor being formed between said downwardly extending member and the adjacent side of said casing.

1,420,367. APPARATUS FOR DRYING THE COVERING OF ELECTRICAL CONDUCTORS OR THE LIKE. JOSEPH P. DEVINE, Buffalo, N. Y. Filed Feb. 20, 1920. Serial No. 360,175. 5 Claims. (Cl. 34—30.)



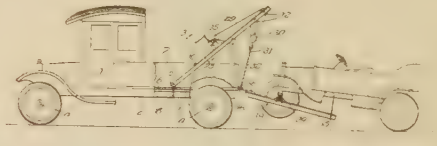
2. In an apparatus for drying the covering of electrical conductors, consisting of a drying chamber from which air may be exhausted, electric connecting means which extend substantially throughout the length of said chamber and to which a plurality of said conductors may be connected for passing a current of electricity through said conductors for heating the same, and a single pair of terminals extending through the chamber walls for supplying current to said connecting means.

1,420,368. COMBINATION TABLE AND CHAIR. TOM DOROSZUK, Polley, Wis. Filed Jan. 26, 1922. Serial No. 531,834. 1 Claim. (Cl. 155—80.)



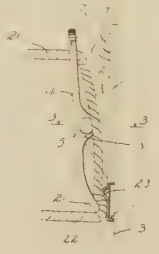
An article of furniture comprising a table, legs rigidly attached thereto, cross bars joining said legs at their lower ends, chairs having seats, backs connected to said seats by pivot links, rabbets formed at the rear edge of the seats and engageable with said backs, means cooperative with said rabbets for securing the seats when folded under the table, curved columns pivoted at their lower ends to said cross bars, shouldered heads on said columns, said seats being slidably connected with said heads, plates for securing the column head in recesses formed in the seat, spring means for maintaining the seat in locking position, and means pivoted to said column for supporting the seat when in extended position.

1,420,369. VEHICLE-TOWING CRANE. ALBERT J. DUKEN, Chicago, Ill. Filed Dec. 2, 1920. Serial No. 427,667. 30 Claims. (Cl. 214—86.)



1. A vehicle towing apparatus comprising in combination, a motive vehicle, a crane mounted on the same, hoisting mechanism suspended on the crane, a cradle arranged for attachment to the axle of a disabled vehicle and connected with the hoisting mechanism so that it may be elevated thereby, and means for retaining the hoisting mechanism to permit pivotal movement of the cradle thereon.

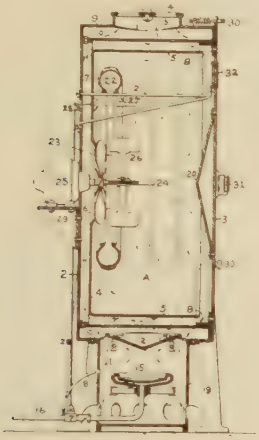
1,420,370. CLOTHESLINE FASTENER. GEORGE B. ELY, Olivet, Mich., assignor of two-thirds to William H. Ortman, Milwaukee, Wis. Filed Feb. 1, 1921. Serial No. 441,532. 1 Claim. (Cl. 24—133.)



In a clothes line fastener, a sheet metal support having a peripheral flange inwardly directed therefrom, a pair of parallel flat ears cut from the central portion and bent outwardly therefrom, extending at substantially right angles to the face of said support and spaced slightly from the straight side edges of said support, a pivot supported in said ears, said support having an enlarged

central opening, a transverse, struck up rib spaced slightly from said central opening, a sheet metal clamping member, a flange inwardly directed therefrom, substantially at right angles to the plane of the surface of said clamp and extending about the inner periphery thereof, lugs formed on said flange mounted upon said pivot and closely gripping said ears, said clamp being bifurcated at its upper portion to receive a rope, and inwardly bent at its lower portion to exert a gripping action upon a rope, said clamping member and said rib cooperating to retain a clothes line therebetween.

1,420,371. OVEN FOR VULCANIZING, BAKING, AND OTHER USES. KENNETH L. EMMONS, Wilmington, Del. Filed Dec. 12, 1919. Serial No. 344,444. 11 Claims. (Cl. 18—6.)



1. An oven of the character stated, comprising an oven chamber of circular form in a vertical plane and of greater diameter than horizontal depth, having a circular jacket surrounding the side walls of the oven and providing a continuous annular jacket passage about the oven chamber from bottom to top for heating products of combustion whereby they circulate upwardly, combined with a heating means outside of the circular jacket for supplying heated products of combustion uniformly to the bottom of the annular jacket passage and means for the escape of the said products at its extreme upper part, and a horizontally arranged bracket secured to the back wall of the oven near its upper portion and extending forward above the central part of the oven a length sufficient for sustaining a plurality of tires.

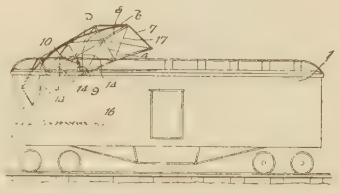
1,420,372. CHAIN FASTENER. RUDOLPH WILLIAM EVANS, Hamilton, Ontario, Canada. Filed Nov. 16, 1921. Serial No. 515,502. 18 Claims. (Cl. 24—68.)

1. A chain fastener for anti-skid chains comprising a lever adapted to be pivoted to one end of a chain, said lever being provided adjacent to one end thereof with a pair of independently operative interlocking means.

1,420,373. METHOD FOR PRESERVING FOOD. ALFRED BERTHOLD ANDREAS FICH, Copenhagen, Denmark. Filed Jan. 12, 1922. Serial No. 528,773. 2 Claims. (Cl. 99—8.)

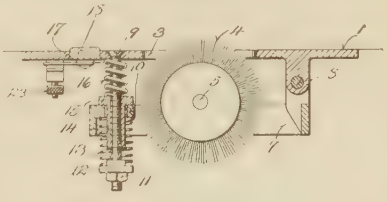
2. A process of sterilizing foods in a can adapted to be seamed to its cover, consisting in depositing the food in the can, interposing a layer of packing material between the cover and the edge of the can, subjecting the can and cover to an initial seaming operation to rigidly clench the cover to the can, heating the can and its contents for a short time to a temperature of 100°—110° C. whereby the air and the gas generated in the can are caused to escape through the joint between the cover and can, and then hermetically sealing said joint.

1,420,374. AUTOMATIC MAIL-POUCH CATCHER. RUDOLPH FRICK, Burlington, Iowa. Filed Sept. 7, 1920. Serial No. 408,556. 2 Claims. (Cl. 258—20.)



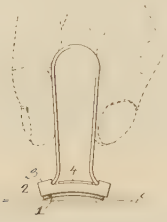
1. A device of the class described including in combination with a car body having an opening in the top thereof, of a movable cage member normally supported within the car and adapted to be disposed in an inclined position with one end projecting through the opening to receive a suspended mail sack for depositing the same within the car and a plurality of S-shaped yieldable retarding members, each having one of their ends secured to the cage and their free ends disposed in the pathway of the mail sack as it passes through the cage to retard the movement of the same.

1,420,375. AUTOMATIC SHOE CLEANER. ARTHUR C. GALES, Milwaukee, Wis. Filed June 15, 1920. Serial No. 389,084. 3 Claims. (Cl. 15—36.)



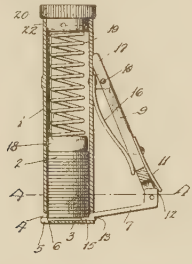
1. In a cleaning machine of the class described, a supporting plate, a frame hinged to the plate and being yieldable with respect thereof, a cleaning element carried by the frame in position to be engaged by an article on the plate, an electric motor for moving the element and circuit closing means yieldably movable with respect to said plate for closing the circuit through the motor.

1,420,376. RUBBER TYPE. HANS H. HELLESOE, Chicago, Ill. Filed Dec. 24, 1921. Serial No. 524,658. 4 Claims. (Cl. 101—368.)



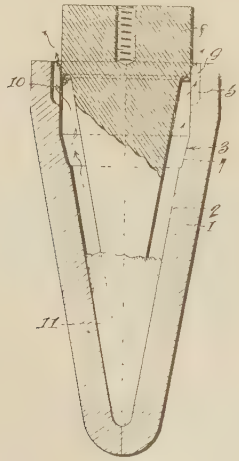
1. A type having a transverse groove upon its back, the opposed walls of the groove being resilient to adapt them to be indented by the spreading arm tips of a holder.

1,420,377. CARRIER FOR TOKENS. JOHN C. HOPKINS, Cedar Rapids, Iowa. Filed Mar. 7, 1921. Serial No. 450,142. 6 Claims. (Cl. 133—5.)



1. A device for the purpose set forth comprising a tubular casing having a discharge opening in its side at one end, an ejector movable across said end of the casing and into said discharge opening whereby to eject a token placed in the casing, means whereby the ejector may be held within the said discharge opening, and means acting constantly in opposition to said holding means whereby upon release of the holding means the ejector will be automatically withdrawn from the discharge opening and caused to engage a token to eject the same.

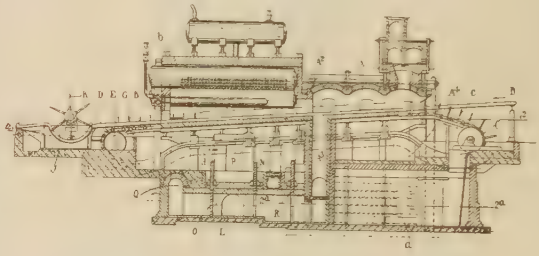
1,420,378. APPARATUS FOR MAKING CUP PASTRY. HOWARD T. INGHRAM, Chicago, Ill. Filed June 4, 1919. Serial No. 301,608. 7 Claims. (Cl. 107—58.)



1. In an apparatus of the class stated, a female mold having a molding cavity and a throat between the molding cavity and the mouth of the mold, a core adapted to enter and partially fill said molding cavity and means cooperative with the throat for restricting the escape of batter during the initial part of the introduction of the core into the mold while permitting the escape of steam, and positively closing off escape of batter during the final portion of the insertion of the core into the mold substantially as shown and described.

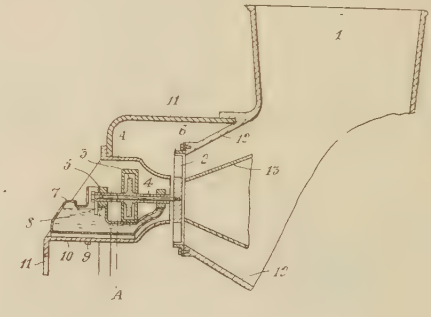
7. In apparatus of the character described a female mold having a molding recess and a throat between the molding recess and the mouth of the mold, said throat where it meets the adjacent end of the molding recess being of the same diameter as the adjacent end of the molding recess, a core adapted to enter and partially fill the molding recess, a head plug carried by the core adapted to enter and fill the throat, said head plug having a concaved surface adjoining the core proper to present an annular knife edge substantially as shown and described.

1,420,379. APPARATUS FOR USE IN TEMPERING AND ANNEALING. DIMITRI SENSAUD LAVAUD, otherwise known as Dimitri Sensaud de Lavaud, Toronto, Ontario, Canada, Bernard Francis Clark, London, and Charles William Baines, Melton Mobray, England, assignors to The Metallurgical Plant Construction Company Limited, Manchester, England, a Company of Great Britain. Filed Mar. 2, 1922. Serial No. 540,480. 5 Claims. (Cl. 263—8.)



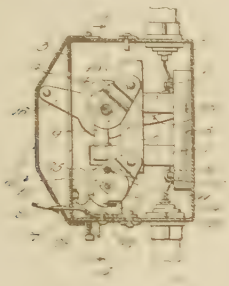
1. Apparatus for use in heat treatments such as tempering and annealing, comprising a heating chamber, a cooling chamber, and heat utilizing apparatus comprising a steam generator placed in the cooling chamber to absorb the heat given off by the heated objects when in the cooling chamber.

1,420,380. MEANS FOR EFFECTING DRAFT IN LOCOMOTIVE BOILERS. FREDRIK LJUNGSTRÖM, Brevik, Lidingon, Sweden, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden, a Corporation. Filed Nov. 4, 1921. Serial No. 512,929. 15 Claims. (Cl. 162—4.)



1. A device for effecting draft in locomotive boilers comprising a smoke box, a turbine, a fan propeller connected with the turbine, a conical, annular, and axially extending diffuser connected with the fan, and means permitting access to and removal of the fan through the front side of the smoke box.

1,420,381. QUICK-BREAK SWITCH. RALPH K. MASON, Bantam, Conn., assignor of one-half to John H. Lancaster, Litchfield, Conn. Filed June 2, 1920. Serial No. 386,125. 8 Claims. (Cl. 200—74.)



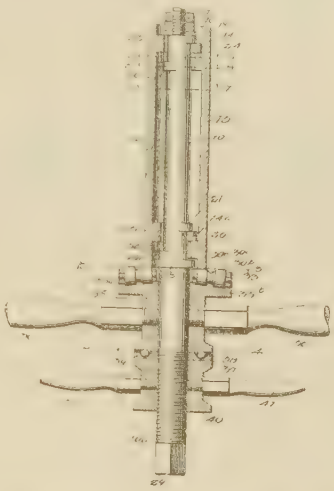
1. An enclosed switch comprising a casing, a spring-opened switch member therein, a handle pivoted on the exterior of the casing and connected with said switch member for closing the switch against the action of its opening spring, and a latch in said casing for holding the switch in closed position, said latch having a tripping portion extending to the exterior of the casing adjacent the pivoted end of the handle, said handle having idle movement toward switch-off position when the switch is closed and being adapted when so moved to strike said tripping portion of the latch to release the latter and permit the switch to open under the action of its opening spring.

1,420,382. QUICK-MAKE AND QUICK-BREAK SWITCH. RALPH K. MASON, Bantam, Conn., assignor of one-half to John H. Lancaster, Litchfield, Conn. Filed June 2, 1920. Serial No. 386,127. 5 Claims. (Cl. 200—67.)

1. In an enclosed quick make and quick break safety switch, a casing, a movable switch base therein, parallel links mounting said switch base in said casing, a rock shaft extending across said casing and rigidly carrying at least one of said parallel links, a handle loose on said shaft and positioned on the exterior of the casing, an arm loose on said shaft between the casing wall and said one link, spring means in the casing acting on said arm to force the same rapidly in either direction when moved to dead center by hand, pick-up means between said handle and said arm, the casing having an opening through which said pick-up means extends, and additional pick-up means between said arm and said one link.

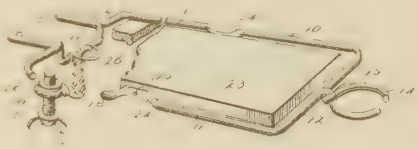
1,420,383. TUBE BEADING OR FLANGING MACHINE. EVERMONT BLEVINS MINER, Portland, Oreg. Filed Jan. 24, 1921. Serial No. 439,631. 4 Claims. (Cl. 153—81.)

2. In a device of the character described, a shaft, a mandrel on said shaft consisting of sections, means for expanding said sections comprising eccentric lugs carried upon said shaft and cooperable with said sections, beading rollers arranged upon said shaft, a working



head for said rollers arranged upon said shaft and feeding mechanism for advancing said rollers and working head during said feeding operation.

1,420,384. TRAP. HUMBERT PIERINI, Greenville, Miss., assignor to Robert B. McMahon, Greenville, Miss. Original application filed Oct. 29, 1920, Serial No. 420,426. Divided and this application filed Mar. 18, 1921. Serial No. 453,267. 5 Claims. (Cl. 43—69.)

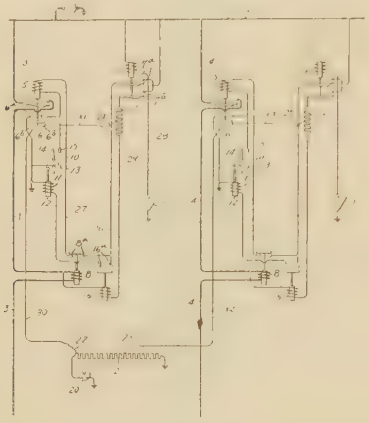


5. In a trap of the class described, a frame for a tilting platform comprising a single section of wire bent to form sides and ends, one end being bent to form a bait holding coil and the other end bent outwardly and inwardly at spaced points at each side of the center to form a pair of outwardly extending arms adapted to rest on top of a supporting plate or table, the wire between the arms being bent downwardly and inwardly to form a downwardly offset cross bar, the ends being then twisted together to provide a downwardly and outwardly extending arm, an eye at the free end of the last named arm, a nut therein, a set screw threaded therethrough to cooperate with the first named arm, said frame being adapted to receive a pivoted plate intermediately of its opposite edges between the sides of the frame with the pivot nearer the coil than the clamp formed by the first named arm and set screw so that the plate will normally tilt downward at the end adjacent the clamp, and a wire stop member at the end of the frame adjacent the clamp to support the plate against downward tilting at said end.

1,420,385. SYSTEM OF ELECTRICAL DISTRIBUTION. CLAUDE W. PLACE, La Grange, Ill., assignor to General Electric Company, a Corporation of New York. Filed Mar. 19, 1920. Serial No. 367,241. 8 Claims. (Cl. 175—294.)

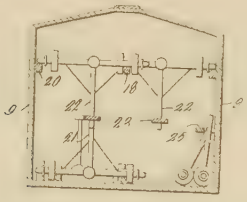
4. In a system of electrical distribution, a source of electrical energy, a distribution circuit, a contactor for connecting said distribution circuit directly to said

source, a high resistance adapted to be inserted in said distribution circuit while said contactor is open, an overload relay connected in said distribution circuit and adapted to open the circuit of said contactor, and a



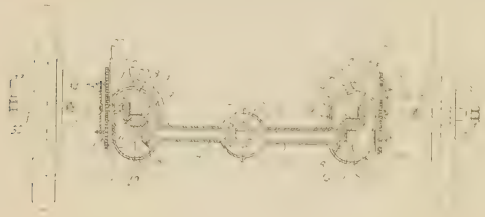
notching relay controlled by predetermined current variations in said distribution circuit when said switch is open and adapted to close the circuit of said contactor after said current variations have occurred a predetermined number of times.

1,420,386. MEANS FOR SUPPORTING REAR-AXLE ASSEMBLIES. JOHN R. ROTH, Flint, Mich. Filed Nov. 30, 1920. Serial No. 427,327. 10 Claims. (Cl. 105—367.)



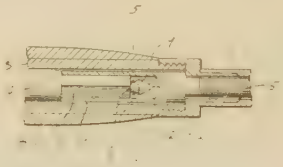
1. A shipping structure for rear axle assemblies having means for supporting the same with the drive shaft casings thereof in substantially vertical positions.

1,420,387. FRONT-WHEEL DRIVE MECHANISM. THOMAS H. SCHAEFER, St. Louis, Mo. Filed Apr. 23, 1920. Serial No. 376,092. 2 Claims. (Cl. 180—43.)



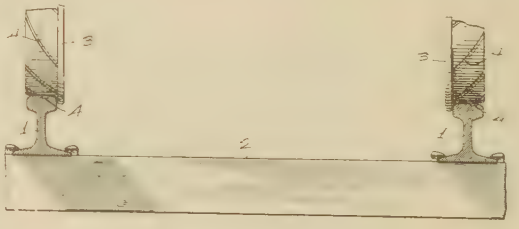
1. In combination with the front axle shaft and wheels of a motor vehicle, a front drive mechanism therefor, comprising a secondary drive shaft journaled horizontally back of and perpendicular to said axle shaft; gear connections between said drive shaft and axle shaft; suitable housings for the elements enumerated; a lower half-housing rigidly extended from each end of the axle shaft housing; an upper, complementary half housing for each lower half housing, same being adapted to meet and turn upon the latter in a horizontal plane, and having its outer face flattened perpendicularly to the axle shaft; a circular gear plate rigidly mounted upon the outer flattened face of each upper half housing; a wheel spindle rotatively journaled perpendicularly through the center of each said gear plate and into the upper, vertical, transverse web of the upper half housing; a spur gear rigidly mounted upon each wheel spindle immediately adjacent the exterior face of the gear plate; a plurality of pins ranged in a circle on the outer face of each gear plate, around said central spur gear of the wheel spindle; a plurality of spur gears mounted over said pins, and in mesh with said central spur gear; brace plates mounted over the outer faces of said gears; an internal gear rigidly mounted on the inner side of each wheel around the hub thereof, same being adapted to mesh with said gears while the hub is freely secured upon its spindle in usual form; means for connecting said power transmission shaft with the motor in order to rotate the shaft; and connecting gears mounted within said half housings, between the ends of the axle shaft and the wheel spindles, for rotating the latter through the former.

1,420,388. ROTARY TOOTHBRUSH. EDWARD F. SCHWORM, Beach City, Ohio. Filed June 11, 1921. Serial No. 476,913. 1 Claim. (Cl. 279—24.)



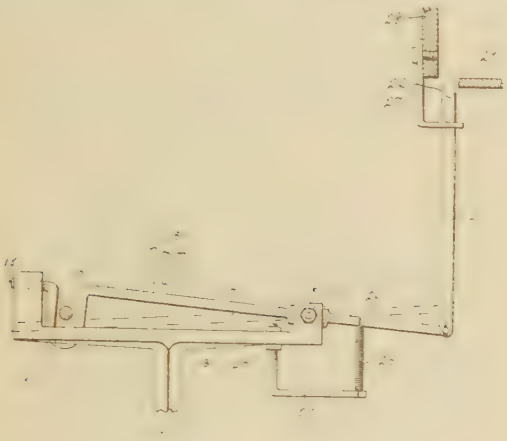
In a device of the character described, a handle having a longitudinal bore therethrough, a cap detachably engaged upon one end of the handle and formed with a hole of less diameter than the bore of the handle, a drive shaft journaled through said hole in the cap and formed with an enlarged portion rotatable within the bore of the handle and formed with a rectangular socket, a spindle rotatable within the bore of the handle and having one end formed with a rectangular extension fitting within said socket and terminating in a head and a constricted neck, and a pair of spring wires extending transversely of the socket and engaging within said constricted neck for holding the spindle against longitudinal displacement relatively to the socket.

1,420,389. TREAD FOR RAILS AND WHEELS. CHARLES E. SCOTT, Sausalito, Calif. Filed Apr. 13, 1921. Serial No. 460,972. 2 Claims. (Cl. 238—148.)



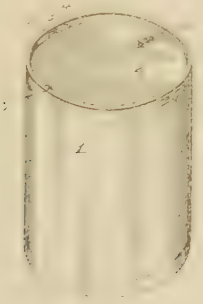
1. The combination with a pair of members comprising rails and wheels arranged to ride thereupon of inclined grooves formed in the tread of each of said members, the grooves of one member being oppositely inclined to the grooves of the other corresponding member, to increase traction and to prevent lateral movement of one pair of members relatively to the other pair.

1,420,390. LOOM HARNESS STOP MOTION. HAMPTON M. SMITH, Greenville, S. C. Filed Mar. 15, 1922. Serial No. 543,936. 4 Claims. (Cl. 139—92.)



1. A loom harness operated stop motion including a supporting member, a lever pivoted on the supporting member intermediate its ends, means urging one end of the lever downward, means for limiting the upward movement of this end, and an upwardly extending blade pivoted to that end of the lever adjacent the urging means and adapted to be disposed adjacent a feeler.

1,420,391. REFUSE RECEPTACLE. OSCAR SWEET, Schenectady, N. Y. Filed Apr. 22, 1921. Serial No. 463,701. 1 Claim. (Cl. 220—32.)



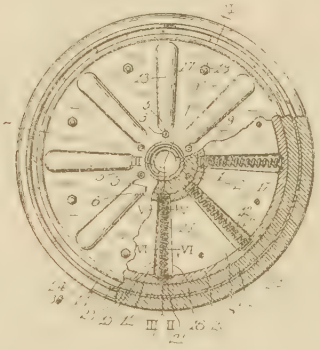
In a receptacle of the character described, the combination of a body portion having diametrically opposite elongated slots near its top, the bottom wall of each of said slots having a notch intermediate of its ends, a closure located within the receptacle and provided with diametrically opposite pintles entering said slots and mounted normally in said notches, a latch carried by said closure to engage the body portion of the receptacle, and a stop projecting inwardly from the body portion of the receptacle for said closure.

1,420,392. PNEUMATIC TIRE PROTECTOR. CLARENCE TAYLOR, Newport, R. I. Filed Dec. 27, 1921. Serial No. 524,940. 1 Claim. (Cl. 152—18.)

A tire shield of the character described, comprising a plurality of arcuate shaped sleeve sections adapted to form a ring when assembled together, each sleeve being split longitudinally upon its inner periphery and the contiguous edges so formed, each being provided with a lip or flange, and the lips of each sleeve terminating a predetermined distance from one end thereof whereby the

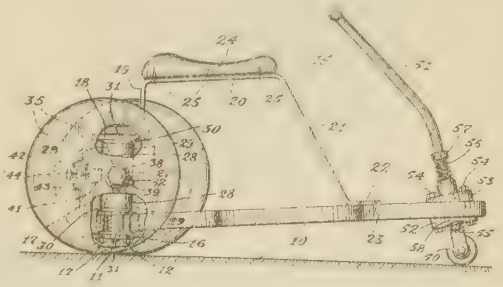
succeeding sleeves may telescope each other and then be against further telescopic movement with respect to each other.

1,420,393. RESILIENT VEHICLE WHEEL. GEORGE VORDERMARK, Indianapolis, Ind. Filed Dec. 20, 1920. Serial No. 431,913. 4 Claims. (Cl. 152—52.)



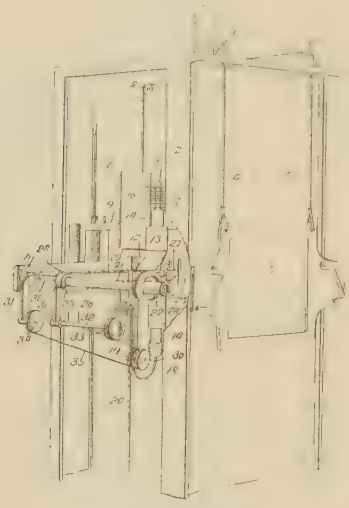
1. A resilient vehicle wheel including a rim member, a hub member, a pair of webs secured to the hub member and slidably engaging opposite sides respectively of the rim member, and a plurality of longitudinally-resilient spokes seated on the hub member and the rim member, each spoke being composed of a flattened coil spring and being laterally engaged by the webs to enable the webs to drive the rim member.

1,420,394. VELOCIPEDE PROPELLING MECHANISM. MANGOLD WAGNER, Seattle, Wash. Filed Mar. 25, 1921. Serial No. 455,461. 4 Claims. (Cl. 208—38.)



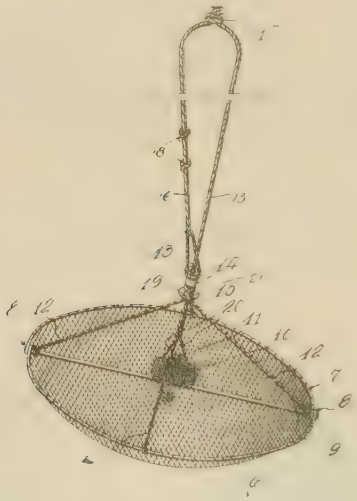
1. A velocipede propelling mechanism comprising oscillating means; eccentric driving means mounted for rotation on said oscillating means; resilient control means for said oscillating means; and adjusting means for said resilient control means.

1,420,395. VERTICAL FLUOROSCOPIC UNIT. HARRY F. WAITE, New York, N. Y. Filed Nov. 20, 1920. Serial No. 425,294. 2 Claims. (Cl. 250—34.)



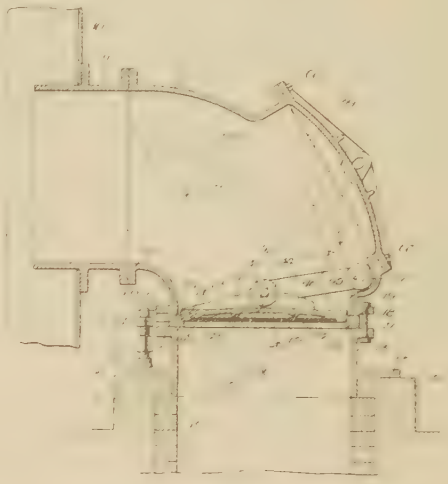
1. In a device of the class described, a hot cathode tube for generating X-rays, a fluoroscopic screen adapted to receive said rays, means for causing the fluoroscopic screen and X-ray tube to be raised or lowered together or be supported in a stationary condition at the same level, a control for regulating the quantity of X-ray generation which extends adjacent to the screen and which is supported by the means for supporting the X-ray generating tube.

1,420,396. FISH NET. GEORGE THOMPSON WARREN, Sr., Charleston, S. C. Filed Aug. 6, 1921. Serial No. 490,236. 1 Claim. (Cl. 43—12.)



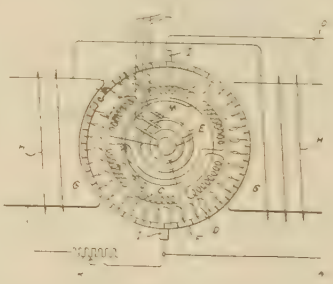
The combination of a net, a pair of half rings connected to the outer edge of said net, a hinge rod extending across the net to which the ends of the half rings are pivoted, a suspending rope connected to said hinge rod, a spool running on said rope, a pull rope connected to the spool, and cord connections between the spool and the opposite half rings and adapted to close the latter upwardly when the pull rope is pulled, and a bait cage mounted on the hinge rod.

1,420,397. CHIMNEY VALVE. KARL WEINEL, Chicago, Ill., assignor to Treyn, Brassert & Company, Chicago, Ill., a Corporation of Maine. Filed June 30, 1919. Serial No. 307,646. 12 Claims. (Cl. 251—16.)



2. In combination, a valve, a valve seat, a pipe within which said valve is mounted, a shaft extending through the walls of the said pipe, bearings within which said shaft is mounted, means for connecting the valve to said shaft, a segmental gear mounted upon said shaft, a second segmental gear in mesh with said first mentioned segmental gear, and a counter-weight secured to the second gear, the said counterweight tending to open the valve and retain it in such position when open.

1,420,398. ROTARY TRANSFORMING APPARATUS. ERNST F. W. ALEXANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 23, 1919. Serial No. 319,414. 20 Claims. (Cl. 171—123.)



2. In a dynamotor, an armature having a core provided with slots, a commutator, collector rings, a fractional pitch alternating current armature winding connected to said collector rings, said windings producing a resultant magneto-motive force of a greater number of phases than the number of collector rings, and a direct current armature winding connected to said commutator, each of said slots containing coils of said alternating current winding at the bottom thereof and coils of said direct current winding at the top thereof.

1,420,399. PROCESS OF MAKING ACETYL ISOBORNEOL. ROLAND L. ANDREAU, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a Corporation of Delaware. Filed July 7, 1917. Serial No. 179,128. 1 Claim. (Cl. 23—24.)

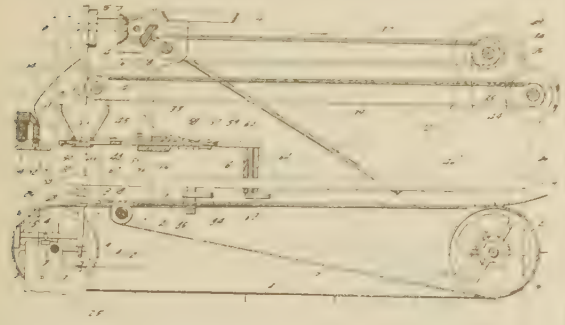
The process of making acetyl-isoborneol which comprises heating camphene with acetic acid in the presence of con-

centrated sulfuric acid at a temperature of from about 55° to 66° C. until the reaction is substantially completed, neutralizing the sulfuric acid with substantially anhydrous sodium acetate, distilling off the resulting acetic acid under reduced pressure, and then removing from the residue the sodium sulphate formed by the neutralization.

1,420,400. GAME. WILLIAM WASHINGTON AYRE, Brooklyn, N. Y. Filed Apr. 26, 1921. Serial No. 464,635. 5 Claims. (Cl. 46—63.)

1. In a game of the character described, the combination of designations of electrical devices, and movable members for association therewith by the player having other designations of the same devices thereon, one of said designations being words and the other designation being pictures.

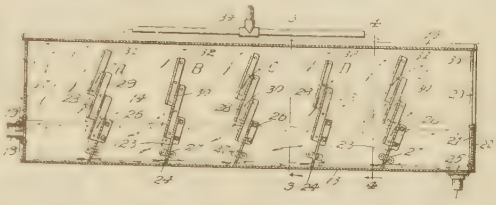
1,420,401. CAN-FILLING APPARATUS. ALBERT BABENDREER, Biloxi, Miss. Filed Oct. 13, 1919. Serial No. 330,422. 15 Claims. (Cl. 249—59.)



1. In a can filling apparatus, a feed hopper, a scale below the hopper, a gate for interrupting the feed from said hopper, and electro-magnetic means responsive to the closing of the gate and adapted to transfer a loaded can from the scale.

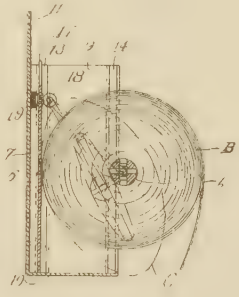
1,420,402. STEAM CONDENSER. JOHN H. BARTELS, St. Louis, Mo. Filed Apr. 8, 1921. Serial No. 459,625. 4 Claims. (Cl. 257—35.)

1. A steam condenser comprising an elongated conical shaped housing, end walls closing the same, a trough located at the apex of the housing and a plurality of



partitions formed of overlapping flanged sections located at intervals within said housing, substantially as specified.

1,420,403. TOILET-PAPER HOLDER. CHARLES BASH, Brookline, Mass. Filed Dec. 15, 1921. Serial No. 522,622. 8 Claims. (Cl. 211—31.)



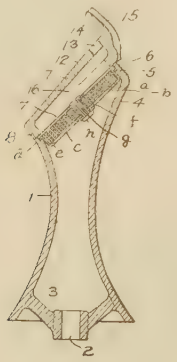
1. A toilet paper holder having, in combination, a casing provided with a plurality of sets of oppositely disposed guideways upon the side walls thereof, a plate slidably mounted in said casing in either of said sets of guideways, a frame pivotally mounted upon said plate and a paper supporting member mounted upon said frame.

1,420,404. SCHOOL DESK. DAVID F. BEAVER, Columbus, Ohio. Filed Jan. 28, 1921. Serial No. 440,762. 2 Claims. (Cl. 45—110.)

1. In a school desk and frame structure, a vertically adjustable bracket carried by said frame structure, said bracket being formed to include an inwardly extending arcuate slotted portion, an angle arm member having its lower end pivotally connected with the inwardly extend-

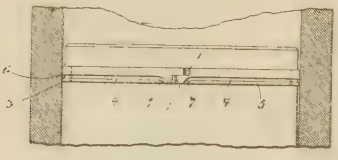
ing portion of said bracket, a writing board, a bracket rigidly depending from said writing board and provided with a segmental slot, a pivotal connection between said latter bracket and said arm, a tie member disposed to extend through the slots provided in said brackets and through an opening formed intermediately in said arm member, and a binding nut carried by the outer end of said tie member and operative to maintain said brackets and arm member in their positions of relative adjustment.

1,420,405. GAS BURNER. ADOLF BELER, Pittsburgh, Pa., assignor to Troop Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 25, 1919. Serial No. 319,588. 1 Claim. (Cl. 158—112.)



In a gas burner, the combination with an air and gas mixing body-portion having a discharge chamber inclined thereto and formed with a circular wall opening, a device for preventing back-firing comprising a structure formed of flat and corrugated strips of metal wound upon each other to produce a circular structure, said structure disposed in said chamber and supported by the circular wall, a cap-plate having a circular bearing arranged in contact with the circular wall, a chamber inclined to the body-portion and a slotted laterally extending portion in advance of the chamber and the bearing, and means for securing the cap-plate to the body-portion.

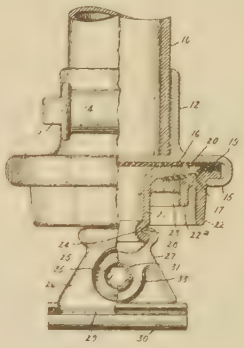
1,420,406. PISTON RING. THEODORE H. E. BOHLMANN, Maplewood, Mo. Filed Feb. 16, 1921. Serial No. 445,451. 4 Claims. (Cl. 74—109.)



1. In a piston ring, a resilient split ring provided with a circumferential oil groove terminating short of the ends of the ring, and having its ends adjacent to the ends of the ring extended obliquely downwardly toward each other to intersections with the lower side wall of the ring, said ends being of decreasing depth toward the lower wall of the ring.

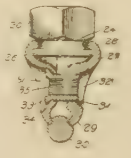
1,420,407. SUSPENSION FOR TROLLEY WIRES AND THE LIKE. GEORGE W. BOWER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 19, 1920. Serial No. 418,092. 6 Claims. (Cl. 191—42.)

1. In an insulator suspension, the combination of two flat members clamped together and insulated from each other, a sleeve projecting from one of said members and adapted to be fastened to a support, a part projecting



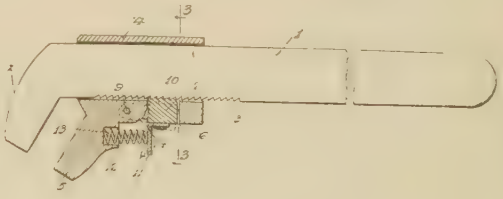
from the other of said members, and a trolley ear swiveled on the end of said part.

1,420,408. CLAMPING EAR. GEORGE W. BOWER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Original application filed Oct. 19, 1920, Serial No. 418,092. Divided and this application filed May 27, 1921. Serial No. 473,070. 8 Claims. (Cl. 191—43.)



5. A trolley ear having edges for clamping engagement with a trolley wire, said edges being bowed out at their centers in opposite directions whereby when the same clamp a trolley wire, the ends of the edges engage it first.

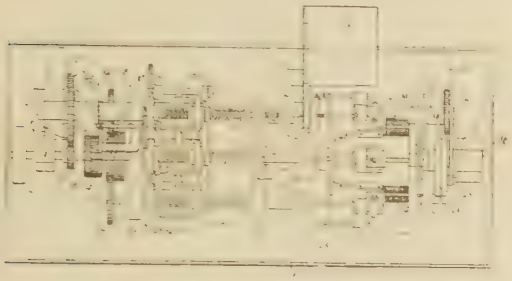
1,420,409. WRENCH. RAYMOND T. BROWN, Lima, Ohio. Filed July 20, 1921. Serial No. 486,191. 1 Claim. (Cl. 81—134.)



A wrench comprising a shank having a fixed jaw at one end and provided in one edge with a longitudinal series of transverse teeth, a movable jaw having a sleeve portion slidably fitted upon the shank, said sleeve portion being provided with a transverse opening in one side at the base of the jaw, a holding dog pivotally attached to the movable jaw at the base of the same and in advance of the opening and playing in said opening and provided in one edge with transverse teeth to engage the teeth on the shank, the movable jaw having a socket in its rear side spaced outwardly from the pivot of the dog, a finger

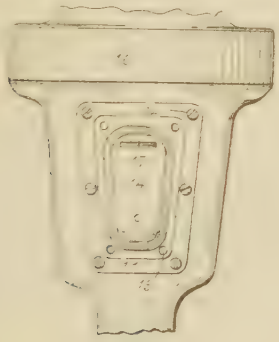
piece projecting laterally from the holding dog across the socket in the movable jaw, and a coiled spring bearing at one end against the front side of the finger piece and having its opposite end housed in the socket in the movable jaw.

1,420,410. BOLT-FINISHING MACHINE. HUBERT CREHAN, Pittsburgh, Pa. Filed Mar. 8, 1920. Serial No. 363,945. 86 Claims. (Cl. 10—4.)



86. In a bolt finishing machine an operating spindle, a rotatable bolt holder, a shaft operatively connected therewith, a driving member normally free on said shaft, means for locking said driving member to said shaft, means for imparting a timed actuation to said locking means, means for rotating and for advancing and retracting said spindle, a nut feeding chute, a nut holding chuck on said spindle, and a pin arranged to be carried forward by said spindle and to enter said nut feeding chute in advanced position of the spindle for withholding the nuts therein.

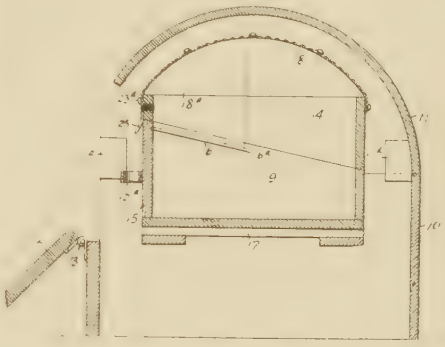
1,420,411. ENGINE VENTILATOR. EMERSON CURRIE, Los Angeles, Calif., assignor of one-half to Arthur E. Hughes and one-half to Fred T. Hughes, both of Los Angeles, Calif. Filed May 12, 1920. Serial No. 380,876. 2 Claims. (Cl. 121—194.)



1. A ventilator for internal combustion engines comprising a base plate adapted to be secured upon the transmission casing, said plate having a transverse slit near the lower end thereof, the metal forming the upper edge of the slit being pressed outwardly to form a slot; a cover plate having the central portions pressed outwardly secured to said base plate to cover said slot, said cover plate being slitted transversely near the upper end, the metal forming the lower edge of the slit being pressed inwardly to form a slot.

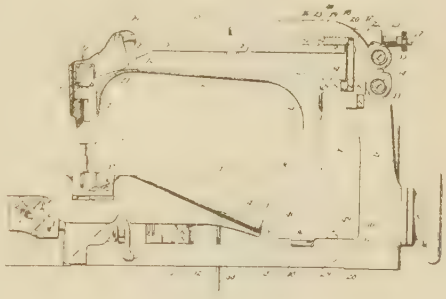
1,420,412. SIFTER. EDMUND GREGORY DALTON, Providence, R. I. Filed Nov. 1, 1921. Serial No. 512,048. 3 Claims. (Cl. 83—60.)

1. A sifter comprising a casing, a vibratable box-like sifter structure therein, a sieve at the top of said structure, and a pan slidable into or from said structure, said



pan sloping toward the back end, the box structure having a corresponding slope.

1,420,413. PRESSER-LIFTING MECHANISM FOR SEWING MACHINES. ALBERT H. DE VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed May 3, 1919. Serial No. 294,393. 12 Claims. (Cl. 112—237.)

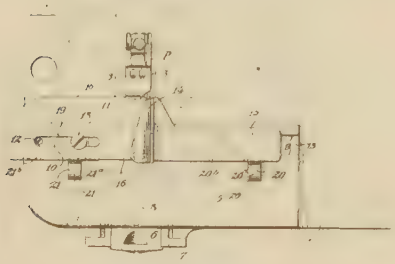


1. In a sewing machine having a vertical standard, a presser-foot, a spring for yieldingly holding the presser-foot down upon the work and presser-foot lifting mechanism including a member having a free end movable toward and from the axis of the vertical standard in the general direction of the line of seam-formation and accessible to the operator's fore-arm without necessitating removal of the operator's hands from the work.

1,420,414. ATTACHMENT FOR SEWING MACHINES. ALBERT H. DE VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Oct. 29, 1919. Serial No. 334,139. 6 Claims. (Cl. 112—143.)

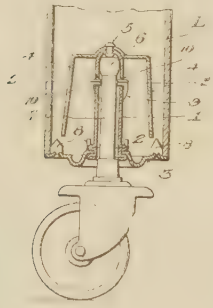
1. An attachment for sewing machines including in combination a base-plate, an edge-guide provided with a supporting shank secured to said base-plate, an open-sided folding scroll adjustably secured to said base-plate and facing said edge-guide, an adjustably mounted folding tongue which projects into said folding scroll, and means for maintaining said adjustable parts in operative posi-

tion and permitting the withdrawal of the folding tongue from within said folding scroll to permit the completion of a fold on tubular work.



6. An attachment for sewing machines comprising a base-plate, an edge-guide, a folding scroll and a folding tongue each provided with a plurality of notches and adjustable relative to said edge-guide, and spring-latches cooperating with said notches to hold said scroll and tongue in adjusted positions, said latches being secured to the under side of the base-plate and having portions accessible from above the base-plate for releasing said latches from said notches.

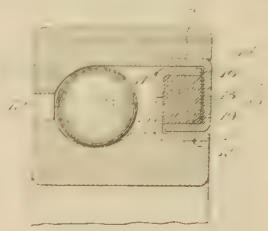
1,420,415. CASTER. ALBERT B. DISS, Newark, N. J., assignor to The Bassick Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Jan. 28, 1921. Serial No. 440,559. 4 Claims. (Cl. 16—39.)



2. In a caster, a socket having opposed openings, a pintle having a head, and an approximately U-shaped spring having its free ends extending through the openings and extending into the socket interior so as to allow the head to be moved therepast.

1,420,416. DUSTPROOF BALL BEARING. JOHN DLESK, Berwyn, Ill., assignor to U. S. Ball Bearing Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 12, 1920. Serial No. 373,173. 11 Claims. (Cl. 64—36.)

1. In a bearing, an outer race-way, an inner race-way, anti-friction members therebetween, an annular cup-shaped member secured to one race-way and a smaller annular cup shaped member secured to the other race-way, said

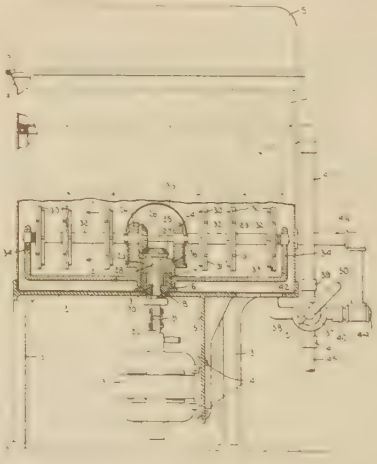


members being turned to face each other and one lying partially within the other.

1,420,417. DRILL. CLARENCE H. DOCKHAM, Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 9, 1920. Serial No. 415,868. 14 Claims. (Cl. 255—51.)

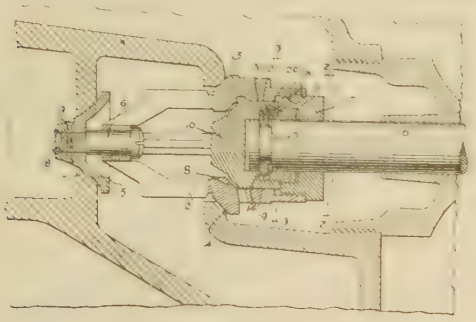
1. A drill mounting comprising a frame consisting of two pairs of parallel rods connected together at their ends, and cross heads adapted to receive the drill proper and mounted on such frame.

1,420,418. DISHWASHING MACHINE. ALVA M. DOW, Braintree, Mass. Filed Nov. 15, 1919. Serial No. 338,144. 11 Claims. (Cl. 141—9.)



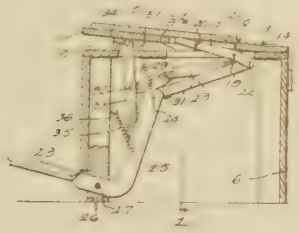
1. A dish washing machine comprising a closed tank, means for supporting the dishes in the upper part of the tank, a support mounted for rotation on a vertical axis in the bottom of the tank, a plurality of water distributors mounted for rotation on horizontal axes on the support, means carried by the support for deflecting the water thrown by the distributors, and means for simultaneously rotating the support and the distributors whereby the distributors will both rotate and revolve picking up water supplied to the bottom of the tank and throwing it in multitudinous directions and angles against the dishes.

1,420,419. INJECTOR VALVE. LEWIS A. FAUST, Roselle Park, N. J. Filed Dec. 17, 1920. Serial No. 431,417. 4 Claims. (Cl. 162—1.)



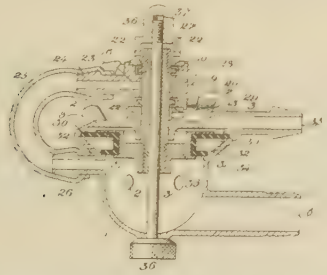
1. An injector valve provided with a plurality of valve stoppers and locking means arranged to co-act with each of the stoppers for locking the same against coming loose.

1,420,420. DRY CLOSET. NEAT D. FLOWERS, Bailey, N. C. Filed Aug. 22, 1921. Serial No. 494,236. 2 Claims. (Cl. 4—32.)



1. In apparatus of the character described, a casing, a seat hinged to the casing to swing vertically, a lid hinged upon the seat to swing vertically, a lever pivoted to the casing and having connection with the lid, a bell-crank lever pivotally connected with the casing, a link connecting the bell-crank lever and the first named lever, manually operated means to swing the bell-crank lever, a lever pivotally mounted between its ends, a link pivotally connecting one end of the last named lever and one end of the first named lever, a link pivotally connected between its ends with the opposite end of the last named lever and having pivotal connection with the seat, and a spring connected with the opposite end of the last named link.

1,420,421. MILKING-MACHINE PULSATOR. ROBERT BRUCE FORSYTH, Christchurch, New Zealand. Filed Jan. 4, 1922. Serial No. 526,972. 5 Claims. (Cl. 31—101.)



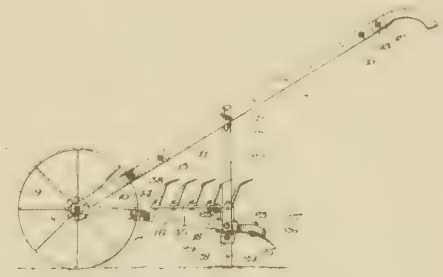
1. The combination with a milking machine including a source of vacuum, a source of primary pulsation, and apparatus adapted to receive secondary pulsations, of a secondary pulsator operable in response to said primary pulsation and adapted to produce said secondary pulsations comprising a chamber having a portion connected with vacuum, a second portion under approximately atmospheric pressure, and a third portion connected with the primary pulsation, a diaphragm in said chamber constituting a yieldable partition between said vacuum and atmospheric portions, a second diaphragm therein of relatively greater effective area constituting a yieldable partition between one of said portions and said primary pulsation portion, and valve-means positively connected with both of said diaphragms so as to be mechanically operated thereby and adapted when so operated to place aforesaid secondary pulsation receiving apparatus in communication with vacuum and atmosphere alternately.

5. The combination with a milking machine including a source of vacuum, a source of primary pulsation and apparatus adapted to receive secondary pulsations, of a secondary pulsator operable in response to said primary pulsation and adapted to produce said secondary pulsations comprising a chamber, a pair of diaphragms therein adapted to reciprocal movement under the combined influence of vacuum, of approximately atmospheric pressure, and of the primary pulsation, a cover for said chamber, a valve housing upon said cover and having connections to atmosphere, to vacuum, and to said secondary pulsation, receiving apparatus, a valve member within said housing reciprocal by said diaphragms and adapted to co-act with said housing to place said secondary pulsation receiving apparatus in communication with atmosphere and vacuum alternately, and a screw extending through said chamber and through an axial bore in said operable valve-member and whereby said chamber, its cover and valve-housing are secured together.

1,420,422. ARTIFICIAL BAIT. WILLIAM A. FOSS, Cleveland, Ohio. Filed Nov. 5, 1920. Serial No. 421,817. 4 Claims. (Cl. 43—42.)

1. In artificial bait, the combination of a fish hook comprising a shank and a hook proper, a fibrous lure having one end attached to the shank of the hook and extending to a point behind the hook and a device secured to the hook and provided with means for holding the fibers of the lure in spread relation behind its point of attachment and adjacent the hook proper.

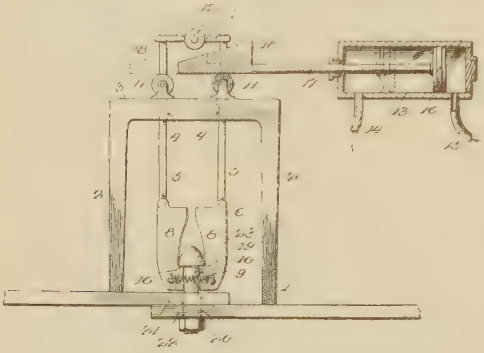
1,420,423. GARDEN TOOL. JOHN E. GILSON, Port Washington, Wis. Filed June 7, 1920. Serial No. 387,258. 1 Claim. (Cl. 97—42.)



In a cultivator of the multiple tool type, a revoluble carrier comprising a member having outwardly extending spaced lugs adjacent its ends for attachment to an implement, a centrally disposed outwardly extending lug

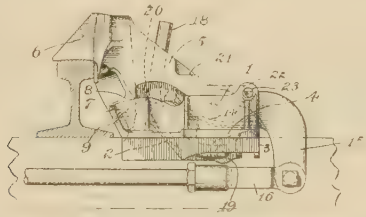
for attachment of another implement and a flat face, said lugs and face being radially arranged with respect to each other, an implement attaching projection extending outwardly from said flat face, implement-carrying arms pivotally mounted on said flat face on radii centered in said projection, said flat face having arcuate slots, and clamping means cooperating with said slots to secure said arms in adjusted position.

1,420,424. BOLTING-UP DEVICE. FRED N. HALLETT, Seattle, Wash., assignor to The Construction Appliance Co., a Corporation of Washington. Filed Dec. 17, 1919, Serial No. 345,574. Renewed Feb. 10, 1922. Serial No. 535,617. 5 Claims. (Cl. 29—84.)



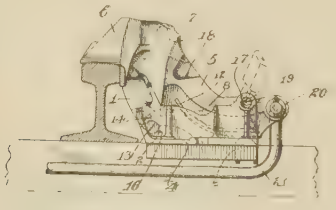
1. A plate assembling machine, comprising a base, a pull-frame movable therein, clutch jaws carried by the pull-frame, and a wedge for operating the pull-frame and bearing rollers for said wedge carried by the base and pull-frame.

1,420,425. DERAIL. STANLEY W. HAYES, Richmond, Ind., assignor to Hayes Track Appliance Company, Richmond, Ind., a Corporation of Indiana. Filed Jan. 23, 1919, Serial No. 272,670. Renewed Nov. 28, 1921. Serial No. 518,431. 17 Claims. (Cl. 246—163.)



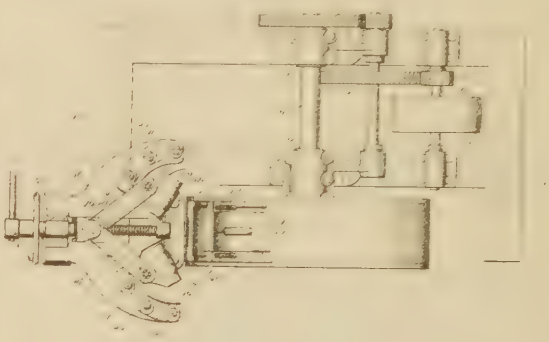
16. A derail of the sliding type comprising a base and derailing member and a lever fulcrumed on the base and adapted to operate the member.

1,420,426. HAND-OPERATED DERAIL. STANLEY W. HAYES, Richmond, Ind., assignor to Hayes Track Appliance Company, Richmond, Ind., a Corporation of Indiana. Filed Jan. 23, 1919, Serial No. 272,671. Renewed Nov. 28, 1921. Serial No. 518,432. 7 Claims. (Cl. 246—163.)



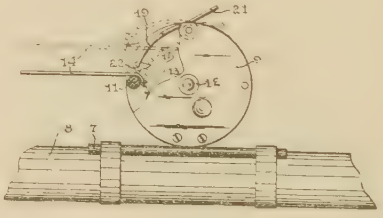
6. A hand-operated derail comprising a sliding type derailing member mounted on bearings on a base and carrying a derail block, said bearing being shaped to compel railward movement of said member first to a position above and in contact with the side of the rail-head and then abruptly downward until the block seats on the rail tread.

1,420,427. FLANGING MACHINE. ROBERT O. HENDRICKSON and KINSEL EARL MOREE, Racine, Wis., assignors, by mesne assignments, to J. I. Case Plow Works Company, Racine, Wis., a Corporation of Delaware. Filed July 26, 1919. Serial No. 313,457. 3 Claims. (Cl. 153—19.)



3. In a device of the class described, a mandrel adapted to receive a cylindrical band and to be slowly rotated on a horizontal axis, a pair of arms pivoted at points substantially lower than the mandrel for a swinging movement in a horizontal plane, a pair of rollers carried by the respective arms at substantially the level of the axis of the mandrel, guides for the respective arms substantially in the horizontal plane of said rollers and adapted to support said arms against the pressure of said rollers, means for swinging the roller-carrying arms about their respective axes comprising a screw, a nut movable on said screw, and links connecting said nut to the respective arms.

1,420,428. FISHING-LINE REEL. CHARLES HERTENSTEIN, Chicago, Ill. Filed Dec. 27, 1920. Serial No. 433,295. 5 Claims. (Cl. 242—84.7.)

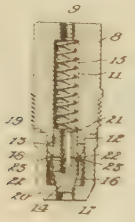


1. A fishing line reel comprising a frame; a spool rotatably mounted on said frame and provided with a line; ratchet means rigidly attached to one side flange of said spool; means pivotally mounted on said frame comprising a U-shaped bar engaging said line and carrying a pawl adapted to engage said ratchet; said bar being automatically raised and said pawl disengaged from said ratchet by said line while taut.

1,420,429. DISCHARGE VALVE FOR AIR COMPRESSORS. ERNEST L. HEWLETT, Norfolk, Va. Filed Feb. 2, 1921. Serial No. 441,871. 4 Claims. (Cl. 251—144.)

1. A device for the purpose set forth comprising a bonnet having an extension at its inner end, a discharge

chamber fitting around said extension and making a ground joint with the bonnet, said chamber having outlets in its side and an inlet in its end, a plug valve slidably



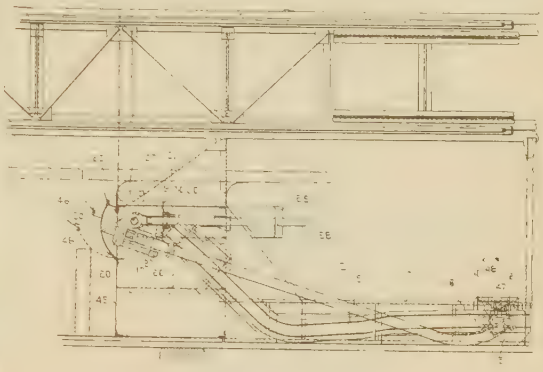
mounted in the bonnet extension and seating in the inlet of the discharge chamber, and means within the bonnet for yieldably holding the valve seated.

1,420,430. MEANS FOR SECURING THE SECTIONS OF A MAST OR POLE TOGETHER. FRIEDRICH JAECKLE and PAUL MEHLHORN, Freiburg, Germany. Filed Mar. 1, 1920. Serial No. 362,639. 2 Claims. (Cl. 20—100.)

1. Means for securing sections of a pole or mast together, comprising a plurality of curved plates adapted to be placed symmetrically around said pole or mast and each having at its side edges apertured flanges and provided at each end with a reduced extension, the extensions being apertured to permit them to be secured to said pole or mast and bolts connecting the confronting flanges of the plates, the plates being of such a size that when applied the flanges of adjacent plates will be spaced apart.

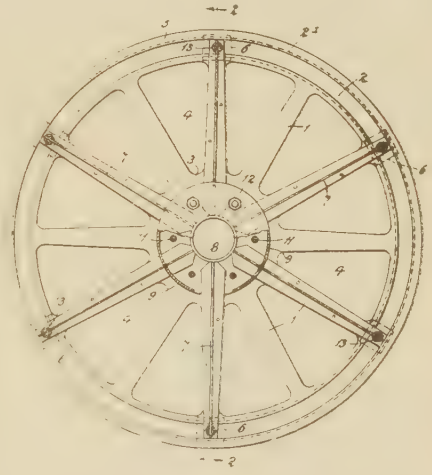
1,420,431. BOX-CAR UNLOADER. ALLAN E. JOHNSON, Montreal, Quebec, Canada. Filed May 18, 1920. Serial No. 382,245. 15 Claims. (Cl. 214—47.)

1. The combination with a baffle for insertion into a box car for the purpose set forth, of means for inserting and withdrawing such baffle and means for successively raising and lowering the baffle relatively to the car floor,



while being inserted and raising and lowering the same relatively to the car floor while being withdrawn.

1,420,432. METAL WHEEL. MAURICE LACHMAN, New York, N. Y., assignor to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Apr. 30, 1921. Serial No. 465,668. 5 Claims. (Cl. 301—66.)

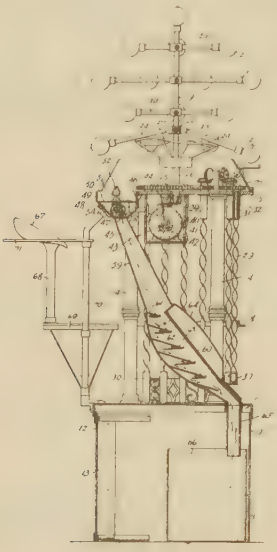


1. A metal wheel consisting of two sets of radially disposed T-bars forming spokes of the wheel, each set backing by its head one of a pair of sheet metal plates formed and cut to constitute the rim, hub and spoke parts integral with one another and means for securing the two sets together with the edges of the T-bars engaged.

1,420,433. APPARATUS FOR THE MANUFACTURE AND DISPLAY OF BEVERAGES. JAMES H. MALLON, Atlantic City, N. J. Filed July 16, 1921. Serial No. 485,341. 3 Claims. (Cl. 40—126.)

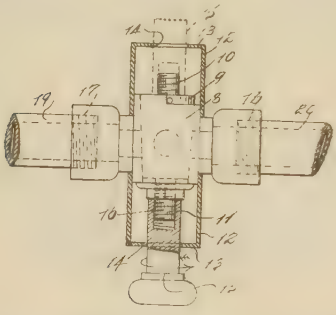
3. In an apparatus for the display and advertising of fruit juice beverages, a booth including a hollow base, upstanding columns and a roof, a conveyor conduit extending diagonally through said booth having an inlet above the roof for the reception of the fruit juice, a transparent panel in the front wall of the conduit, an annular series of vertically disposed rotary bars surrounding the booth and conduit and provided with mirrored helical surfaces adapted to reflect the juices pass-

ing through the conduit to simulate moving streams of fruit juice, a vertical shaft extending upwardly from the roof, ornamental elements carried by said shaft and



simulating the fruit from which the juice is derived, and a common means for actuating said shaft and the rotary bars.

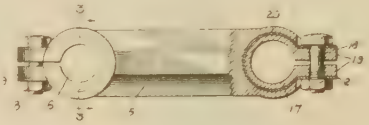
1,420,434. GAS COCK. HARRY MARGULIES, New York, N. Y. Filed Feb. 17, 1921. Serial No. 445,726. 1 Claim. (Cl. 251—100.)



In a shut off valve mechanism, the combination of a casing, a rotatable valve within the same, a sleeve covering each end of the valve having an opening in the end wall thereof, projections extending inwardly from the wall of the opening, a threaded stud at each end of the valve, a key insertable through the opening in each sleeve, and a head carried by the key having channels for the passage of the projections on the sleeves, the thickness of said head being less than the distance between the ends of the studs and the adjacent end wall of the sleeves covering same, whereby said key can be rotated to operate the valve after said head has been moved inwardly to clear said projections, said head having a threaded bore to engage the threaded studs on said valve.

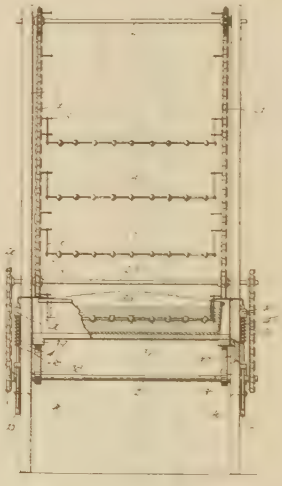
1,420,435. STORAGE BATTERY. PAUL M. MARKO, Brooklyn, N. Y. Filed May 2, 1919. Serial No. 294,250. 3 Claims. (Cl. 173—324.)

1. In storage battery cell connectors, a connector bar of metal, the ends of the bar constituting clamps and reinforcement means to strengthen the clamp portions of the bar and having tabs disposed at the outer faces of the bar, said reinforcement means comprising bow-shaped clips embedded in the metal of the bar and having ex-



posed tabs, and binding means passing through the bar and exposed portions of the clips, the binding means having direct contact with said exposed portions of the clips.

1,420,436. CONFECTION-COATING MACHINE. VINCENZO MATRANGA, New York, N. Y.; Vincenza Matranga administratrix of said Vincenzo Matranga, deceased. Filed Apr. 27, 1920. Serial No. 377,032. 3 Claims. (Cl. 91—4.)

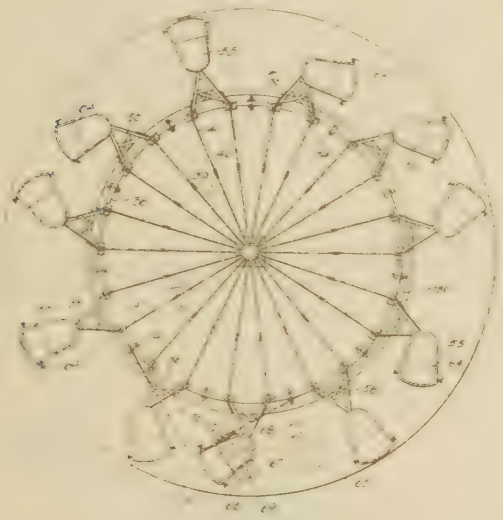


1. In a machine for coating confections, a suitable support, an endless conveyer traveling through said support, a plurality of confection-carrying racks carried by said conveyer, a coating-material receptacle, means operated from said conveyer for periodically elevating the coating-material receptacle, and means adapted for engagement with the confection-carrying racks for maintaining said racks submerged in the coating material in the receptacle when the latter is in elevated position.

1,420,437. AMUSEMENT DEVICE. ELMER JOHN MAYER, New York, N. Y., assignor to Joseph Schneps, New York, N. Y. Filed Nov. 16, 1920. Serial No. 424,428. 4 Claims. (Cl. 46—27.)

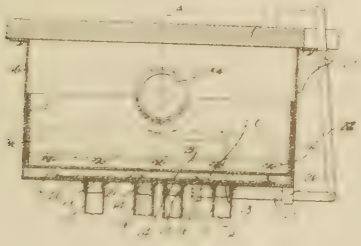
1. In an amusement device, a stationary circular track, a circular member mounted interior of the track and con-

centric therewith, means for driving said interior member, a plurality of triangular frames pivotally mounted upon



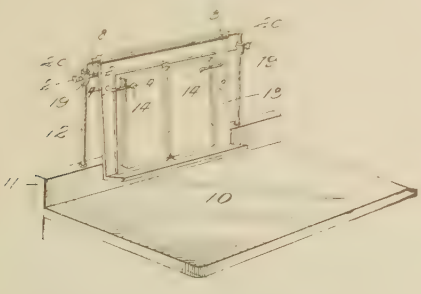
said interior circular member, and a passenger-carrying car pivotally mounted upon the outer end of each of said triangular frames.

1,420,438. SANDING MACHINE. LOUIS MILLER, Brooklyn, N. Y. Filed Oct. 22, 1921. Serial No. 509,499. 6 Claims. (Cl. 291—34.)



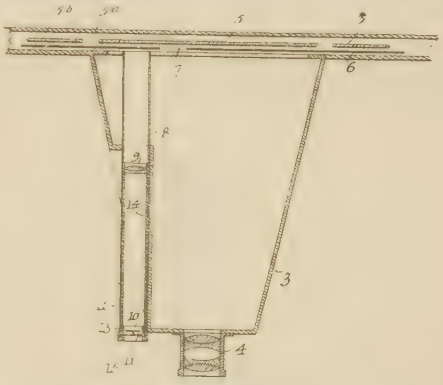
1. As a new article of manufacture, a vehicle sanding machine of the class described, comprising a container having tubes leading therefrom to the vehicle wheels, means for controlling the flow of sand from the container, and a sand box mounted in the container with its bottom spaced above the means for controlling the flow of sand to carry the weight of the sand.

1,420,439. DESK BOOK SUPPORT. ELLA L. MOORE, Los Angeles, Calif. Filed Aug. 13, 1921. Serial No. 491,904. 1 Claim. (Cl. 45—82.)



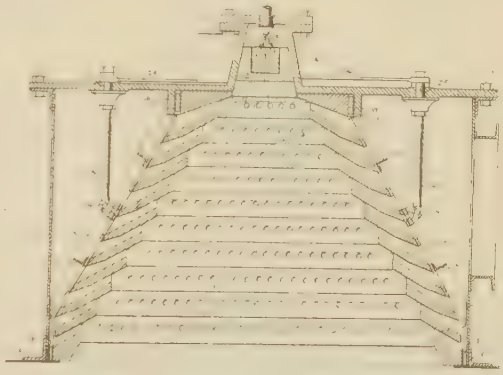
A desk book holder comprising an inverted U-shaped frame, an L-shaped holder having its upper edge hinged to the horizontal rail of said frame, a rail having its ends adjustably arranged on the vertical legs of the frame and positioned to the rear of the L-shaped holder for adjusting the angular position of the latter; means for locking said rail in its adjusted position and spring held book engaging fingers arranged on the L-shaped holder.

1,420,440. CAMERA APPLICABLE TO AERIAL PHOTOGRAPHY. THOMAS EDWARD MOORHOUSE, Hawthorn, Victoria, Australia. Filed Nov. 4, 1919. Serial No. 335,708. 5 Claims. (Cl. 95—1.1.)



1. An apparatus for aerial photography, comprising, in combination, a main camera and an auxiliary camera provided with a direction-indicating element, each of said cameras having a lens disposed for focusing on a single sensitized element supported at the rear of the cameras and a shutter between said sensitized element and said lenses and movable for exposing said element to the action of said lenses whereby a topographic representation and a direction-indication applicable thereto are produced on said sensitized element.

1,420,441. FURNACE. CHARLES D. MOSHER, New York, N. Y. Filed Oct. 20, 1919, Serial No. 332,034. Renewed Apr. 8, 1922. Serial No. 550,793. 5 Claims. (Cl. 158—1.5.)

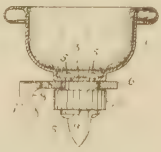


1. In a combustion chamber of the class described, a multi-sided tapered chamber having ports therethrough, and in combination therewith a series of simultaneously operatable slides for adjusting the openings of said ports.

1,420,442. CAN OPENER. MELBOURNE M. MUDD, Toledo, Ohio, assignor to The Nobby Manufacturing Company, a Corporation of Ohio. Filed May 3, 1920. Serial No. 378,389. 1 Claim. (Cl. 30—3.)

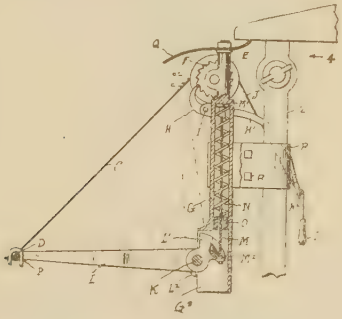
In a can opener, a cup shaped knob; a toothed wheel having a hub positioned with its hub against the bottom of the knob; a plate held loosely on the hub between the

knob and wheel, and having a pendent cutting blade; a prod positioned against the bottom of the wheel; and a



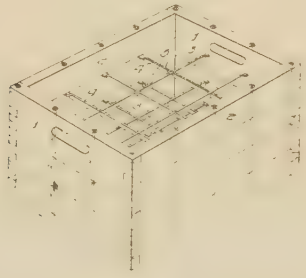
pair of rivets extending in parallel relation through the knob, wheel and prod and securing the same rigidly together.

1,420,443. LIGHT-SHADING DEVICE. HARRY E. OWEN, Muncie, Ind. Filed Apr. 23, 1921. Serial No. 463,818. 3 Claims. (Cl. 296—95.)



2. A light shading device, comprising a roller, a curtain secured to the roller, support members, arms hinged to the support members and having their ends connected to the lower ends of the curtain, extender means to urge the said arms to lowered position, a ratchet on the curtain roller, a pawl to engage the ratchet, a downwardly disposed arm for the pawl having an eye at its lower end, and a cord wound on the roller and being passed through the eye of said arm.

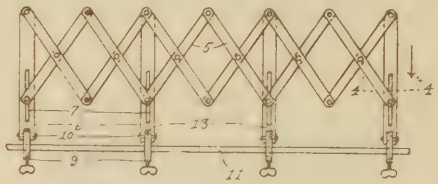
1,420,444. BOTTLE CRATE. LEE H. PAYNE, Chicago, Ill. Filed Mar. 22, 1920. Serial No. 367,730. 1 Claim. (Cl. 217—22.)



A bottle crate comprising rigid sustaining walls, pockets formed by partitions extending between said walls, and bottoms beneath said pockets sustained by said walls and comprising thin metal strips disposed with their greater transverse dimension horizontal and their broader faces in position to receive the impact of bottles dropped into the pockets; said strips being corrugated vertically to develop longitudinal resiliency therein and having their ends anchored in opposed walls of the crate under initial longitudinal tension and being otherwise free from vertical restraint between their ends.

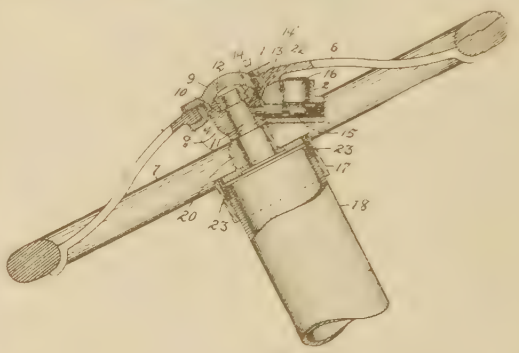
1,420,445. LUGGAGE CARRIER. ROBERT H. PRICHARD, Los Angeles, Calif. Filed July 21, 1919. Serial No. 312,311. 3 Claims. (Cl. 224—29.)

1. A luggage carrier comprising a lazy tongs, bars pivotally secured to one edge of the lazy tongs and slidably connected to the other edge of the lazy tongs, and clamps pivotally secured to said bars, some of said bars being at the ends and others intermediate the ends of the lazy



tongs, the bars intermediate the ends of the lazy tongs each being pivotally secured to the end joint of a pair of lazy tongs members, and slidably secured to the end joint of the pair of lazy tongs members pivoted to the first pair.

1,420,446. STEERING WHEEL. WILLIAM C. RASTETTER, Fort Wayne, Ind. Filed May 18, 1921. Serial No. 470,523. 4 Claims. (Cl. 74—33.)



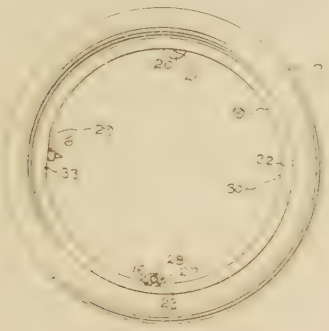
1. In a device of the class described, a steering wheel having a chambered hub; a steering column including a cap provided with a projecting lug; a steering post extending through the cap; a ball secured on the top of the post arranged within the hub and having two radially disposed sockets; and a locking means in connection with the hub adapted to selectively engage in the sockets; said hub having jaws for engagement with the lug when the wheel is in tilted position.

1,420,447. CLOCKWORKS. MARSHALL O. ROSE, Oregon City, Oreg. Filed Aug. 12, 1921. Serial No. 491,668. 3 Claims. (Cl. 58—134.)

1. The combination with the escape-wheel of a clockworks, of a verge pivoted to engage the teeth of the

escape-wheel, an arm having a finger provided with a laterally extending stop element arranged upon one side of the verge, a second finger carried by the arm and having a laterally extending stop element arranged upon the opposite side of the verge, and adjustable means for supporting said arm whereby the arm may be angularly adjusted.

1,420,448. VEHICLE WHEEL. CHARLES F. RUBSAM, Brooklyn, N. Y. Filed Dec. 15, 1917. Serial No. 207,343. 5 Claims. (Cl. 301—11.)



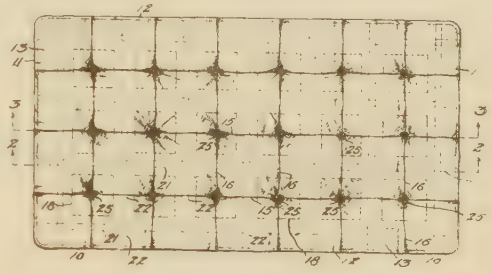
1. A vehicle wheel comprising a wheel body, a removable rim for said wheel body, means associated with said wheel body and rim for swinging the latter into position on the former about a diametral line of the wheel body as an axis, and a plurality of raised substantially cylindrical bearing members interposed between said rim and wheel body, one of said raised bearing members being on one side and another of said raised bearing members being on the other side of a plane passing through said wheel body and through said axis.

1,420,449. FLYING TOY. ALFRED L. SALVO, Augusta, Ga. Filed Feb. 1, 1922. Serial No. 533,416. 4 Claims. (Cl. 244—2.)

2. A toy comprising a handle, a member rotatably mounted thereon, a helix seating on said member, and resilient gripping means carried by said member and engaging said helix to hold it against axial movement with respect to said member during initial rotary movement of the helix, said helix being adapted to be automatically disengaged from said gripping means by pressure thereof in an axial direction against the latter caused by rotation of the helix at high speed.

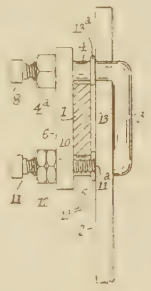
1,420,450. MATTRESS. FREDERICK F. SCHMITT, Philadelphia, Pa. Filed Mar. 5, 1921. Serial No. 449,705. 2 Claims. (Cl. 5—13.)

1. A mattress including sides and ends forming a frame having the outer dimensions of the finished mattress; a backing sheet of the length and breadth of the finished mattress with its edges secured to the frame; spaced openings in the backing sheet, and a cover of greater dimensions than the finished mattress adapted



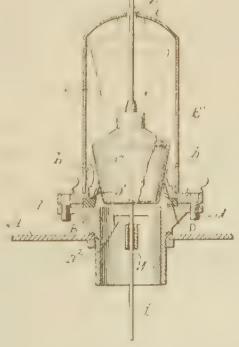
to be drawn into the openings in the backing sheet by the tufting stitches.

1,420,451. CLAMP PRINCIPALLY FOR COLTER ADJUSTMENT. LOUIS HERMANN SCHULZE, Grovedale, via Geelong, Victoria, Australia, assignor of three-fifths to Adolph Pohl, Grovedale, Victoria, Australia. Filed May 5, 1920. Serial No. 379,149. 6 Claims. (Cl. 55—94.)



1. For clamping a colter head or pillar to a beam, a plate having holes receiving limbs of a diagonally set bolt, the respective limbs of which extend above and below the beam, the plate having upper and lower holes to receive set screws above and below the beam to bear against and to adjust the pillar.

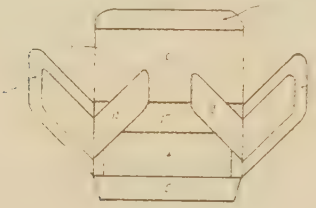
1,420,452. FLUSH-TANK VALVE. FRANK L. SHOPPE, Passaic, EDWARD G. HEDGES, Newark, and WALTER W. HEROY, Bloomfield, N. J. Filed May 14, 1921. Serial No. 469,528. 3 Claims. (Cl. 4—5.)



1. The combination, with a flush-tank-outlet having a flexible valve-seat clamped thereon, of a float-valve adapted to fit in said seat and held thereto by water-pressure, a water-chamber enclosing the float-valve and having a

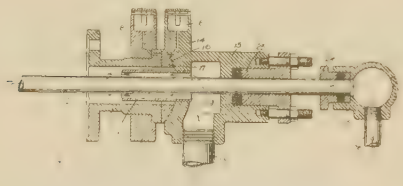
water-inlet near the said seat and an air-passage in the top, the float-valve being provided with a stopper to close the said passage and with a rod extended through the passage to lift the valve for flushing the tank, the stopper excluding the air from within the chamber until the charge of the tank is lowered to the said water inlet.

1,420,453. HANDLE FOR PAPER CONTAINERS. WALTER W. SHORDAY, Lawndale, Pa. Filed Nov. 12, 1920. Serial No. 423,542. 2 Claims. (Cl. 229—24.)



1. In combination, a paper container having a three fold cover, comprising a tongued top flap and duplicate side flaps cut from vertical continuations of the side walls to the depth of the top of said container and creased hinged on the plane thereof, adapted to be folded inwardly and across the open top of the container, beneath said tongued top flap, the remaining portions of the side walls providing carrying means for said container, substantially as described.

1,420,454. ATTACHMENT FOR PAPER-MACHINE DRIERS. JOHN WILLIAM SMITH, West Carthage, N. Y. Filed Mar. 19, 1921. Serial No. 453,653. 2 Claims. (Cl. 34—4.)

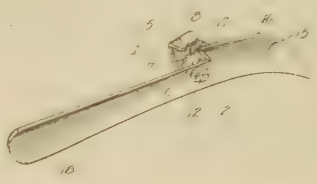


2. An attachment of the class described including a sleeve adapted to be secured to a drier at the inlet thereof, a fitting relatively to which said sleeve may revolve, said fitting having a steam chamber and a steam inlet leading thereto, a stuffing box on said fitting rearward of the steam chamber, and a moisture return pipe extending through said sleeve, and through said steam chamber and stuffing box.

1,420,455. CURTAIN. RICHARD SNOECK, New York, N. Y. Filed Sept. 2, 1921. Serial No. 497,815. 3 Claims. (Cl. 296—145.)

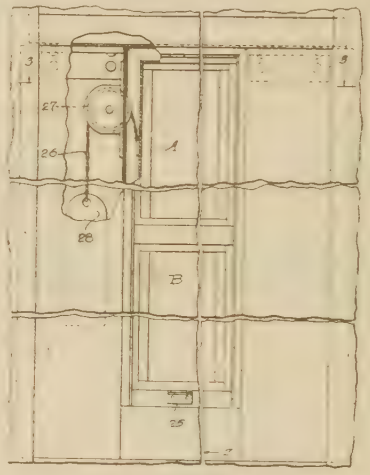
3. A curtain including a body of flexible material formed with an opening, a rigid frame adapted to be connected to said body and adapted to lie within said opening, a side member forming a part of said frame and swingingly connected thereto, and panels carried by said frame.

1,420,456. CAN OPENER. ROY Z. SNYDER, Seattle, Wash. Filed Apr. 2, 1921. Serial No. 458,093. 3 Claims. (Cl. 30—3.)



1. A can opener of the class described comprising a guide plate having a back-turned gripping portion at its inner end, a gripping plate pivotally fixed to the guide plate at its outer end having a cam surface disposed in opposed relation to said back-turned gripping portion of the guide plate, a handle member pivotally fixed to the gripping plate by means offset from the first named pivotal connection and having a cutting edge along one end thereof, the said pivotal connections of the members being located in such relation that actuation of the handle to press the cutting edge thereof through the wall of the can to which the device is applied will effect the clamping of the gripping members against the flange of the can.

1,420,457. WINDOW CONSTRUCTION. JOHN F. STECKENREITER and FRANK J. STECKENREITER, Brooklyn, N. Y. Filed Nov. 20, 1920. Serial No. 425,486. 3 Claims. (Cl. 189—72.)

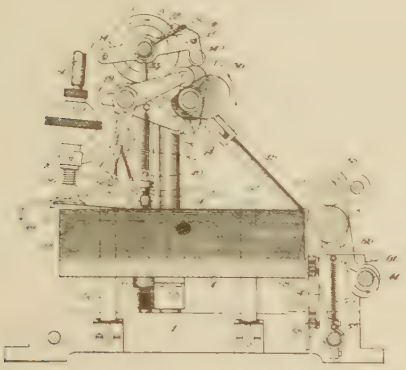


1. A window sash construction having stiles and rails, which comprises a weather-tight joint between adjacent rails when the window sashes are in closed position, which joint comprises U-shaped channel members, the base of one member fastened to the lower rail of one sash and the base of the other channel member fastened to the upper rail of the other sash, the legs of the each U member extending horizontally outwardly toward the legs of the other U member, one of the legs of each U member being shorter than the other, these legs being so disposed that the short leg of one member, when the sashes are in closed position, contacts with the long leg of the other member, and vice versa, to provide two spaced contacting surfaces disposed in horizontal planes to make the joint air- and water-tight.

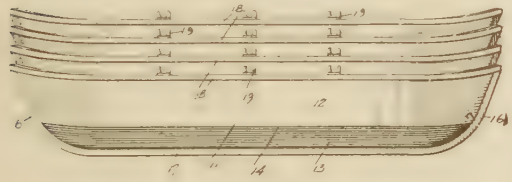
1,420,458. SHEET-FEEDING MACHINE. HERMAN STEINMETZ, Rochester, N. Y. Filed June 6, 1919. Serial No. 302,227. 18 Claims. (Cl. 271—28.)

1. In a sheet feeding machine, the combination with a table and a clamp at one side thereof adapted to hold the

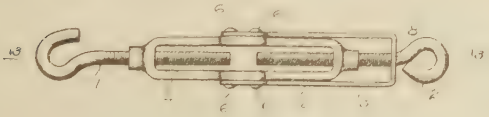
advance edges of a pile of sheets against the table, of a feeding element movable in a direction across the table



toward the clamp and a pneumatic suction device adapted to raise the rear edge of the topmost sheet and present it to the feeding element.

1,420,459. LIFEBOAT. WILLIAM STEWART, Newark, N. J. Filed Sept. 21, 1921. Serial No. 502,192. 4 Claims. (Cl. 9—3.)

1. In a life boat, a hull comprising a bottom and laterally stepped side walls including upper and lower divergent sections connected by a horizontal step extending fore and aft, said steps within the hull constituting shelves, longitudinal seats superposed with respect thereto affording a receiving space therebetween, removable buoyant elements interposed between the shelves and longitudinal seats, transverse seats adapted to be supported by the longitudinal shelves, and means for detachably associating said transverse seats with the longitudinal seats.

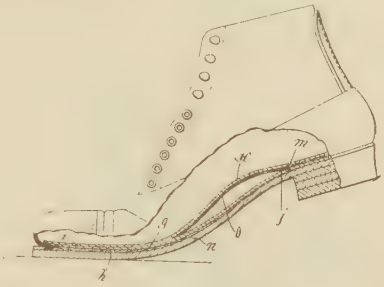
1,420,460. TURNBUCKLE. WILLIAM E. SULLIVAN, Jacksonville, Ill. Filed Mar. 9, 1922. Serial No. 542,332. 7 Claims. (Cl. 24—19.)



1. A self locking turnbuckle comprising a pair of threaded stub ends and a split link to the respective parts of which said stub ends are secured, said link comprising a pair of coacting jaw members and a lever operatively connected to said jaw members to engage and disengage the latter.

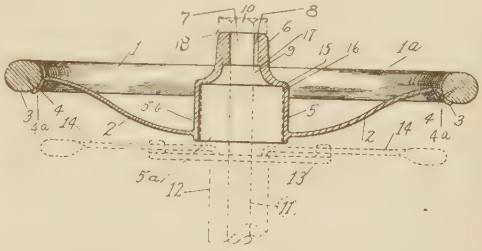
1,420,461. FOOTWEAR. JOHN F. TEEHAN, Brockton, Mass. Filed Nov. 10, 1921. Serial No. 514,142. 4 Claims. (Cl. 36—17.)

4. A welt shoe comprising a welt, an upper, and an innersole having a continuous rib extending around the shank and forepart thereof and stitched to the welt and upper, said innersole being split at the shank and at the



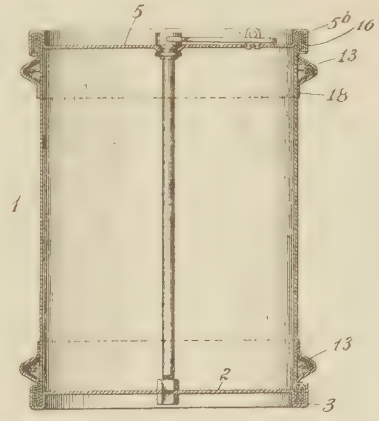
toe end and integrally connected approximately at the ball of the shoe.

1,420,462. STEERING WHEEL. ELMER R. THOMAS, Davenport, Iowa. Filed May 16, 1921. Serial No. 469,785. 4 Claims. (Cl. 74—33.)



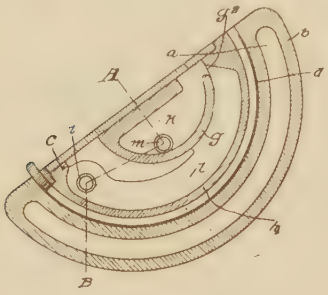
1. In connection with a vehicle having steering gear mounted upon a steering post within a gear-box, a steering wheel consisting of a hub, spokes and a rim; hub means having a plurality of upwardly curved spokes radiating from the bottom of the perimeter of the hub, the said spokes curved out of the line of their attachment to the said hub directioned toward its mouth and supporting said rim on their outer ends.

1,420,463. SHIPPING RECEPTACLE. CHARLES P. TOLMAN, New Rochelle, N. Y., assignor to National Lead Company, New York, N. Y., a Corporation of New Jersey. Original application filed May 23, 1914, Serial No. 840,430. Divided and this application filed Jan. 17, 1918. Serial No. 212,323. 8 Claims. (Cl. 220—73.)



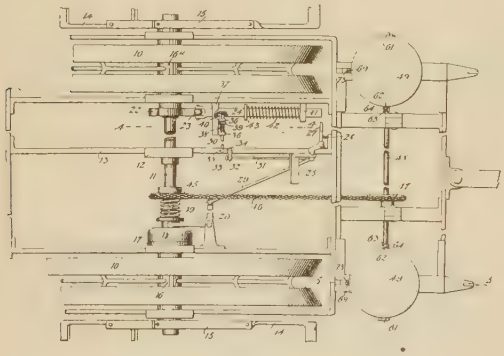
1. A shipping receptacle having a folded rim or seam structure at each end thereof and two rolling hoops beside the same, each hoop projecting laterally beyond the adjacent rim or seam structure and being directly attached thereto.

1,420,464. MOLD FOR CASTING STEREOTYPE PLATES. CARL WINKLER, Berne, Switzerland. Filed July 30, 1921. Serial No. 488,635. 1 Claim. (Cl. 22—4.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



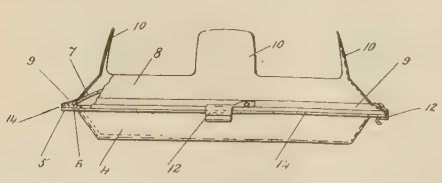
A mold for casting stereotype plates having a water mantle divided by a partition into inner and outer chambers communicating with each other through an opening in the partition at one side of the mold, the outer chamber having an outlet and the inner one having means for admitting cold water thereto at the side thereof opposite the opening in the partition.

1,420,465. WIRELESS CORN PLANTER. CHRISTIAN JACOB ARNOLD, Walker, Iowa. Filed Oct. 3, 1919. Serial No. 328,105. 7 Claims. (Cl. 111—25.)



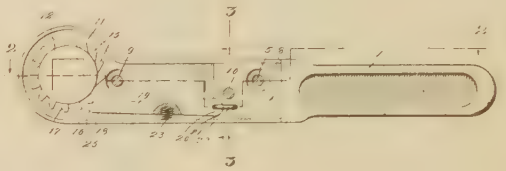
1. A corn planter including an axle, running wheels loose thereon, markers fast on said axle, a manually controlled clutch to establish or disestablish a drive connection between one of the wheels and the axle, lock means to hold the axle against turning, and operating means common to both the clutch and lock means to simultaneously throw out the clutch and throw in the lock means.

1,420,466. PIE-PLATE ATTACHMENT. JULIA BAKKEN, Northwood, N. Dak. Filed Dec. 16, 1921. Serial No. 522,813. 3 Claims. (Cl. 53—6.)



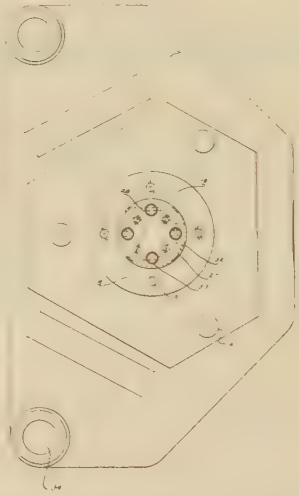
1. An attachment for a pie plate, comprising an annular member provided with a peripheral flange having a downwardly projecting cutting edge, said member having also upwardly projecting lugs adapted to support it when inverted, and having also means for attaching it to a pie plate.

1,420,467. WRENCH. WARREN S. BELLOWS, Worcester, Mass. Filed Oct. 2, 1919. Serial No. 328,008. 3 Claims. (Cl. 81—61.)



1. In a wrench, in combination, a handle member, a socket head mounted to turn on the handle member and provided with ratchet teeth, and a pawl pivoted and seated at one end against the handle member at one side of the longitudinal axis thereof, said pawl being provided with a nose adapted to engage between the teeth of the socket head and having a flat face for surface contact with the adjacent toothed shoulder to wedge the nose of the pawl radially inward with respect to the socket head for transmitting strain radially through the head and longitudinally through the pawl.

1,420,468. FORMING MACHINE. CHARLES M. BREHM, Dayton, Ohio. Filed Jan. 8, 1921. Serial No. 435,977. 12 Claims. (Cl. 164—29.)

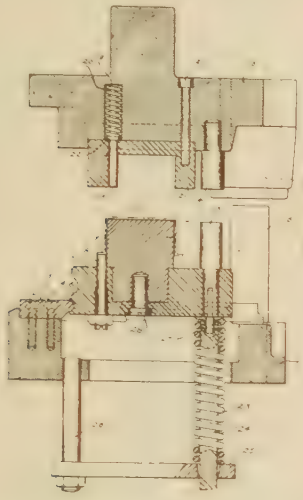


1. In combination, a punch and die adapted to move relative to one another vertically and laterally to effect the trimming of a blank, yielding means to hold in position said blank while the trimming operation is taking place, said means being located apart from the portions to be severed being in engagement with the main portion of the article being trimmed and means to limit the relative vertical movement of the punch and die with respect to one another.

1,420,469. TRIMMING MACHINE. CHARLES M. BREHM, Dayton, Ohio. Filed Jan. 8, 1921. Serial No. 435,976. 2 Claims. (Cl. 164—29.)

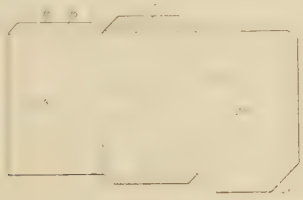
1. In combination, a punch adapted to have lateral and vertical movement relative to a die, a die, means in said die adjacent the wall thereof having its outer end flush with the face of the die adapted to make contact

with a blank on the punch, yielding means for maintaining said member in its outermost position and embracing the blank between it and the punch, means on said



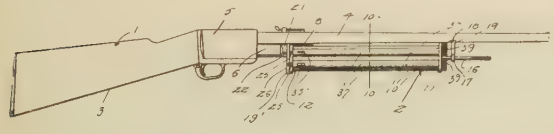
punch for supporting a portion of the blank adjacent the die, whereby a blank may be trimmed without deforming it.

1,420,470. ENVELOPE. YORKE BURGESS, Chicago, Ill., assignor to The Burgess Company, a Corporation of Illinois. Filed Dec. 13, 1920. Serial No. 430,243. 3 Claims. (Cl. 229—72.)



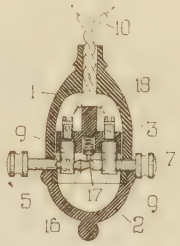
2. A double pocket envelope made from a single sheet having three rectangular sections folded on two parallel lines, one end section folded upon the intermediate section and the other end section folded upon the first end section; an end flap on the intermediate section and folded upon the outside of the first end section to form a pocket; a side flap on the other end section and folded upon the outside of the intermediate section to form a second pocket; two end flaps, one on the intermediate section and one on the first end section and foldable upon the outside of the second end section to separately close adjacent ends of the two pockets; and an end flap on the second end section to close the opposite end of one pocket.

1,420,471. MULTIMAGAZINE SELF-LOCKING RIFLE. JOSEPH CARTER, Saskatoon, Saskatchewan, Canada. Filed Mar. 2, 1921. Serial No. 448,976. 8 Claims. (Cl. 42—19.)



1. In a gun, a barrel, a breech tube, a revolving magazine slidably carried by the barrel, and means operatively mounting the magazine for coaction with the breech tube.

1,420,472. ELECTRIC SWITCH. HENRY B. CORNISH, Liverpool, England. Filed Mar. 8, 1922. Serial No. 542,018. 3 Claims. (Cl. 200—77.)



1. An electric switch comprising a base, a switch bar formed of conducting and nonconducting parts, a pair of terminal pieces on said base perforated at their ends to receive said switch bar, means to displace the switch bar through said perforated terminal pieces so that conducting or non-conducting parts respectively connect said terminals.

1,420,473. PARTITION FOR BUILDINGS. CARL E. DAWSON and AXEL G. DAWSON, Cleveland, Ohio. Filed Dec. 14, 1920. Serial No. 430,641. 10 Claims. (Cl. 189—34.)

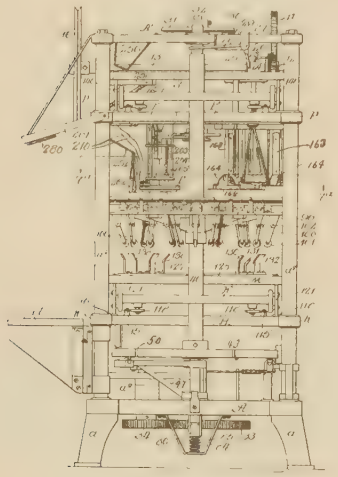
3. A partition comprising studs, panels between the studs, clips fastened to the studs and engaging the edges of the panels, and trim members covering the side of the studs and the clips and having inturned flanges engaged behind said clips.

7. The combination with studs having vertical flanges and cross pieces between said flanges, horizontal bars having tongues at the ends fitting between said flanges and resting on said cross pieces, and panels confined between the studs and the bars.

1,420,474. FOLDING MACHINE. ALEXANDER D. ELLIOTT, Viola, Ill., assignor to A. Stein & Company, Chicago, Ill., a Corporation. Filed Jan. 22, 1920. Serial No. 353,323. 49 Claims. (Cl. 223—15.)

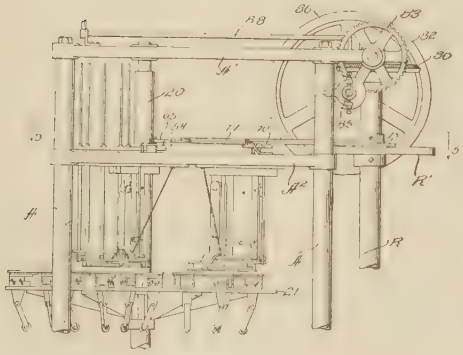
1. In a folding machine for fabric blanks, the combination of a plurality of supports for said fabric blanks,

means for revolving said supports in a horizontal plane, means for folding the fabric blanks comprising two elements, viz, a folder blade and a die or templet, one of



said elements being associated and revoluble with said supports past the other of said elements and means for actuating said elements in time action.

1,420,475. FOLDING MACHINE. ALEXANDER D. ELLIOTT, Viola, Ill., assignor to A. Stein & Company, Chicago, Ill., a Corporation. Filed Aug. 6, 1920. Serial No. 401,688. 5 Claims. (Cl. 223—15.)



1. The combination with a folder blade and with a support for blanks to be folded, and with means for actuating the same, of a die or templet for cooperating with said blade, a movable bar for carrying said die or templet, a shaft provided with a cam, a rod actuated by said cam, and connections between said rod and said die-carrying bar whereby said bar and said die or templet are moved back and forth.

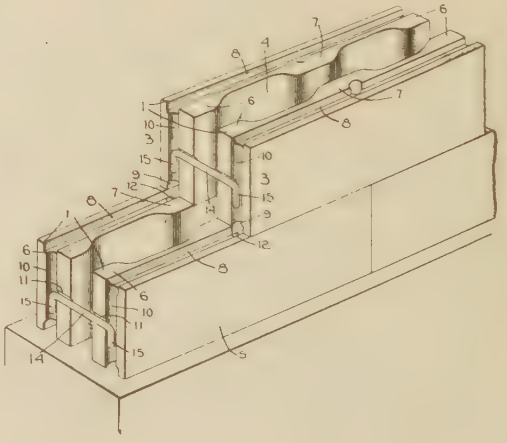
1,420,476. CANDLE. JOHN A. P. ERICKSON, Northland, Minn. Filed Jan. 19, 1921. Serial No. 438,460. 1 Claim. (Cl. 102—24.)

A spark emitting candle, including an inflammable body portion, a wick embedded in said portion, and metal filings adherently associated with said wick.

1,420,477. RECOVERY OF OXIDES OF NITROGEN IN SULPHURIC-ACID MANUFACTURE. ANDREW M. FAIRLIE, Atlanta, Ga. Filed May 19, 1920. Serial No. 382,519. 6 Claims. (Cl. 23—1.)

4. The process of removing from the exit gases of a sulphuric acid manufacturing plant, the normal content of sulfur dioxid therein, oxidizing the lower oxides of nitrogen to higher oxides, and absorbing the latter.

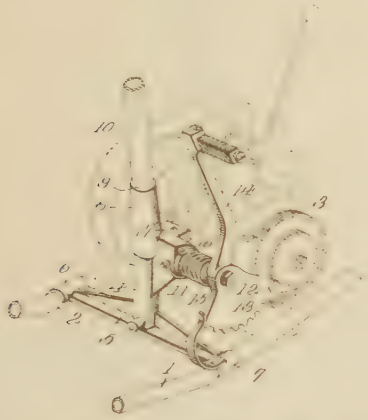
1,420,478. WALL CONSTRUCTION. WALTER R. FORBUSH, Newton, Mass. Filed Dec. 11, 1920. Serial No. 430,022. 1 Claim. (Cl. 72—30.)



A wall construction comprising two tiers of superposed blocks each block having a groove in both its top face and its bottom face situated entirely within the edges of the block and which aligns with a corresponding groove in the meeting face of an adjacent block and forms therewith a concealed cement-receiving channel, each block also having a vertical passage extending from its top face and leading into said channel, cementitious binding material filling the concealed cement-receiving channels and the vertical passages, each block also having a trans-

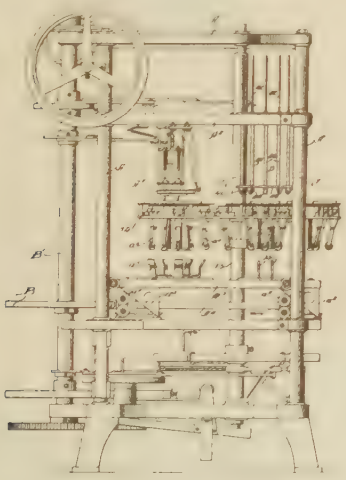
verse passage leading from its inner face into a vertical passage, and metallic tie members connecting said tiers and located in the transverse passages, the ends of each tie member being bent into a position at right angles to the body thereof and occupying a vertical passage.

1,420,479. KICK-STARTER SUPPORT. CHARLES BAYLY FRANKLIN, Springfield, Mass., assignor to Hendee Manufacturing Company, Springfield, Mass., a Corporation of Massachusetts. Filed June 1, 1921. Serial No. 474,233. 5 Claims. (Cl. 74—54.)



1. In a motorcycle, the combination with the cradle and transmission case carried thereby, an upright supported by said cradle rearwardly of said case and provided with a bearing, a toothed sector, and kick-starter lever journaled in said bearing, said sector adapted to mesh with a gear journaled in the transmission case.

1,420,480. FOLDING MACHINE FOR FABRIC BLANKS. ARTHUR W. GAVITT, Chicago, Ill., assignor to A. Stein & Company, Chicago, Ill., a Corporation. Filed July 26, 1920. Serial No. 399,073. 14 Claims. (Cl. 223—15.)

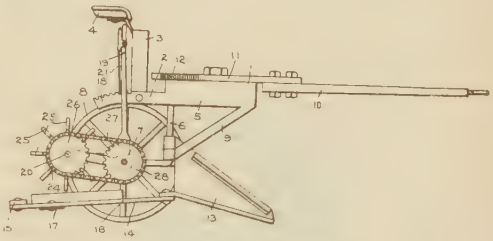


1. In a machine of the character described, the combination with suitable means for folding the fabric blanks, of a support for the fabric blanks to be folded, means for moving said support vertically to lift the folded fabric blanks, a blank receiver open at its bottom to admit the folded fabric blanks, and dogging mechanism to hold said fabric blanks within the receiver after they have been delivered thereto.

1,420,481. HINGE. PETER GOBLET, Aurora, Ill., assignor to All-Steel-Equip Company, Aurora, Ill., a Corporation of Illinois. Filed July 10, 1920. Serial No. 395,291. 2 Claims. (Cl. 16—128.)

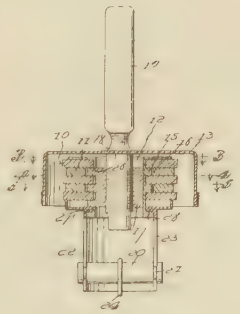
1. In combination, a sheet metal door frame countersunk along one of the margins of the opening, a sheet metal door overlapping the countersunk portion of the door frame whereby the front of the door is approximately flush with the front of the frame, the door having a slot running parallel with the overlapping edge of the door near to but spaced therefrom, and a plate fastened to the front surface of the door frame and overlapping the front of the door sufficiently to extend to the slot therein, said plate projecting through the slot and extending substantially to the countersunk portion of the door frame.

1,420,482. BEET TOPPER. STEPHEN A. GOODSON, Hillsboro, Ill. Filed Sept. 1, 1920. Serial No. 407,324. 1 Claim. (Cl. 55—107.)



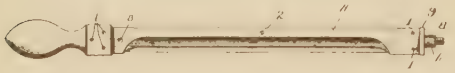
A beet topper including a supporting structure, upwardly and rearwardly inclined blades carried by said supporting structure and adapted to lift beet tops from engagement with the ground, flexible guide members extending rearwardly from the blades and having pivotal connection therewith and adapted to receive the tops from said blades, said members converging towards their rear ends and having said ends spaced and pivotally connected with each other, circular knives carried by said members and means for forcing the tops in contact with the knives.

1,420,483. COMBINATION LOCK. HERBERT M. HAINLINE, Sciota, Ill. Filed Oct. 27, 1921. Serial No. 510,718. 4 Claims. (Cl. 70—53.)



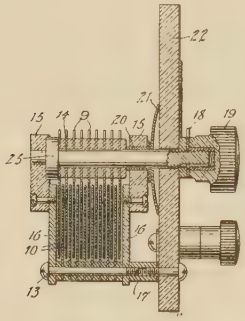
1. A combination lock having an axially movable stem or bolt and associated tumbler disks for locking the same against axial movement, and a sleeve by which said disks and bolt are carried, in combination with a barrel for interlocking engagement with one end of said sleeve and rovided at diametrically opposite points with longitudinal key hole slots transversely intercepted by the terminal of said bolt when in its normal position, and a latch pin engaged in said key hole slots.

1,420,484. HACK-SAW HOLDER. FRANK HICKENLOOPER, Albia, Iowa. Filed Aug. 22, 1921. Serial No. 494,919. 3 Claims. (Cl. 145—31.)



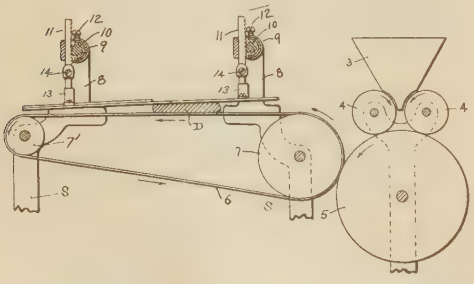
1. A rigid saw blade holder comprising a pair of bars secured together face to face and one of them, having a recess open at one edge of the bar to receive the saw blade between them, one edge of said holder being cut away for nearly the length of the recess to expose a greater width of the blade than is exposed at the end portions of the holder and the outer faces of said bars at the cut-away portion being beveled toward the opening of the recess.

1,420,485. VARIABLE ELECTROSTATIC CONDENSER. GEORGE F. JOHNSON, Springfield, Ill. Filed May 18, 1920. Serial No. 382,440. 2 Claims. (Cl. 250—41.)



1. In an electrostatic condenser, the combination with a support, and a set of spaced stationary metal plates on the support, of an arbor mounted in the support and having a shoulder thereon, a series of spaced disks on the arbor, a slip bushing around the arbor in one of its bearings, and a pressure device engaging the bushing and pressing the series of spaced disks against the shoulder to maintain the disks of the arbor in parallelism with and in spaced relation to the stationary plates.

1,420,486. AUTOMATIC BREAD-MOLDING MACHINE. JOSEPH KENNEDY, Providence, R. I. Filed Sept. 25, 1919. Serial No. 326,418. 3 Claims. (Cl. 107—9.)

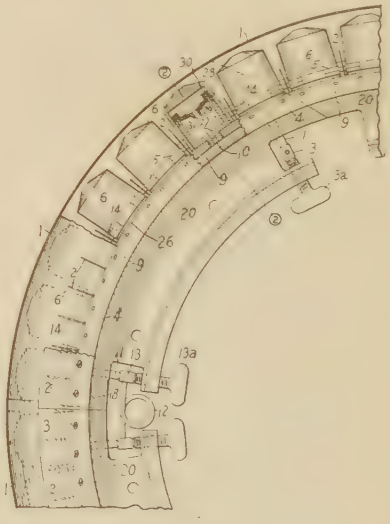


1. In a machine for molding bread loaves having means for conveying a mass of dough and a molding plate adjustably positioned above said conveyer, the combination with said molding plate of the described adjusting means, the same comprising transversely extending half elliptic springs mounted one on said plate near each end thereof and each provided with a vertically extending stud disposed centrally of the spring, vertically reciprocating racks each engaging its adjacent stud, pinions supported above said plate in engagement each with its adjacent rack, means for rotating said pinions and other means for locking the pinion carrying means to hold the plate yieldingly in its adjusted position.

1,420,487. HOOK. ROBERT J. KENT, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Jan. 20, 1922. Serial No. 530,702. 5 Claims. (Cl. 24—129.)

1. A hook comprising a body portion, a lower pointed end, an upper portion curved to form a half loop and to extend downward toward the middle of said body portion, and two arms extending from said upper portion and lying one across either side of said body portion.

1,420,488. EXPANSIBLE CORE. HARRY P. KOENNEKE and WALTER F. MILLER, Dayton, Ohio; said Koenneke assignor of his entire right to George E. Keller, Dayton, Ohio. Filed Oct. 24, 1921. Serial No. 509,958. 32 Claims. (Cl. 18—45.)

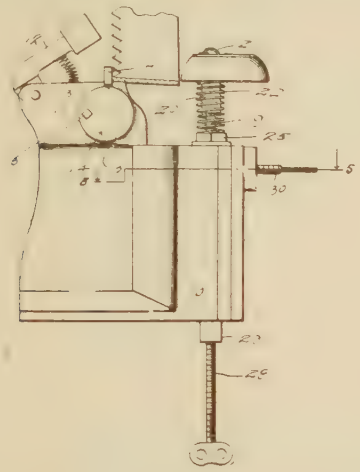


1. In a device of the character described, a tubular casing adapted to fit within a tire or the like and divided longitudinally along one side thereof, a pressure member arranged near the edges of said casing and adapted to exert pressure on the edge portions of said tire, and means for expanding said casing and actuating said pressure member.

1,420,489. SAW SET. ARTHUR MANHART, Elizabethtown, Ill. Filed Oct. 4, 1920. Serial No. 414,513. 13 Claims. (Cl. 76—65.)

1. A saw set including an anvil, a gage and guard element for coaction with the anvil in the setting of a

saw and engageable with the saw on the opposite side thereof to the anvil, and said gage and guard element being



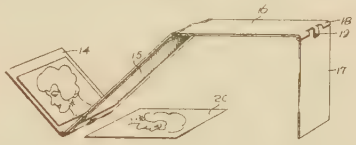
movable into and out of the path of movement of the saw for the purpose specified.

1,420,490. EXPANSIBLE CORE FOR CURING AUTOMOBILE TIRES AND THE LIKE. WALTER F. MILLER, Dayton, Ohio. Filed June 24, 1921. Serial No. 479,994. 43 Claims. (Cl. 18—45.)

1. In the device of the character described, a segmental casing formed wholly of resilient material, substantially circular in cross section, adapted to fit within a tire and divided longitudinally along one side thereof, and mechanical means to positively expand said casing.

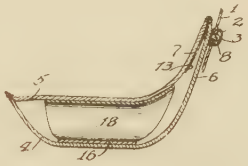
1,420,491. COPYING APPARATUS. LOUIS F. MORSE, Brooklyn, N. Y. Filed Jan. 6, 1921. Serial No. 435,492. 1 Claim. (Cl. 88—1.)

A copying apparatus including a pair of translucent elements, a transparent element, and a receiving element, hinges adjacent the end edges of said elements for swingingly connecting the same one to the other, and stops associated with said elements and adjacent their point of hinged connection, said stops co-operating with said elements in such a manner as to permit of said translucent elements being arranged at right angles with respect to each other so that the same might be disposed upon a supporting surface to provide a part shaded from light



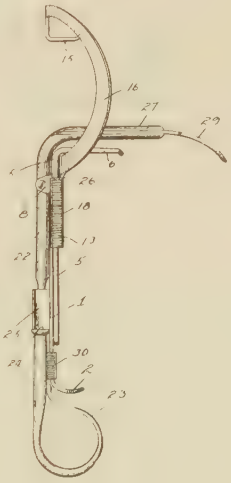
rays, said transparent element being disposed in an inclined plane with respect to one of said translucent elements and being adapted to overlie the shaded portion of said supporting surface said receiving element being disposed at an angle to and forming a continuation of said transparent element.

1,420,492. ARCH SUPPORT. JOSEPH MOSHER, Chicago, Ill. Filed June 25, 1919. Serial No. 306,677. 10 Claims. (Cl. 36—71.)



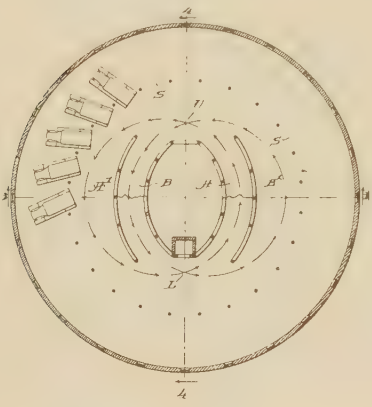
1. The combination with a shoe, of a snap fastener socket secured thereto and having an air opening therethrough, an arch support removably seated within the shoe, and a passaged snap fastener member on said arch support adapted to be removably engaged in said snap fastener socket to hold the arch support in position and also permit air from the exterior of the shoe to be admitted into the arch support.

1,420,493. MOUTH SPECULUM. JONAS J. MOYER, Oakland, Calif. Filed Sept. 20, 1920, Serial No. 411,623. Renewed May 13, 1922. Serial No. 560,818. 16 Claims. (Cl. 128—12.)



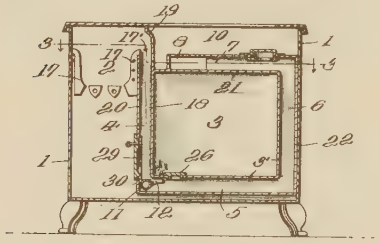
1. A speculum comprising a standard, teeth-engaging means to hold the mouth open, a tongue depressor oscillatively mounted on said standard so as to move transversely of the tongue, and an adjustable tongue-engaging blade carried by said tongue depressor.

1,420,494. GARAGE CONSTRUCTION. BENJAMIN F. MULLANEY, Boston, Mass., assignor to James Purdon, Boston, Mass., trustee. Filed Mar. 30, 1920. Serial No. 369,925. 4 Claims. (Cl. 20—1.13.)



1. Garage construction, comprising a series of floors, and two spiral ways adapted to travel of vehicles, each spiral way comprising inclines of suitable pitch from one floor to the next, and portions coincident with the respective floors, lying outside the inclined portions of the other spiral way, one of said spiral ways being a right-handed, the other a left-handed, spiral.

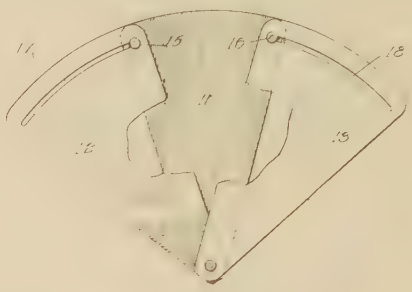
1,420,495. COMBINED GAS AND COAL RANGE. FREDERIC G. NICOLAUS and JOSEPH ROY, Cleveland, Ohio, assignors to American Stove Company, St. Louis, Mo., a Corporation of New Jersey. Filed Mar. 31, 1921. Serial No. 457,376. 3 Claims. (Cl. 126—36.)



1. A combined coal and gas range comprising a housing, a fire-pot therein, an oven within the housing and spaced apart from the fire-pot forming a downwardly extending flue communicating at its upper end with the fire-pot, said flue extending around the oven and communicating at its upper end with a chimney flue, a burner having an elongated end located adjacent the bottom of the downwardly extending flue with its elongated end extending beneath the oven bottom, and a gas burning slit located in the end wall of the extending end of the burner and adapted to direct the flame across the bottom of the oven, for the purpose described.

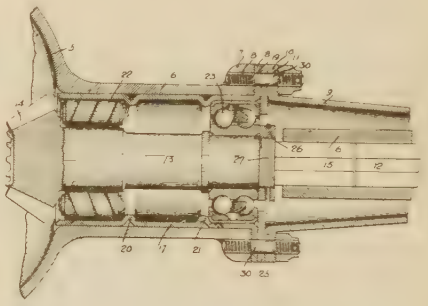
1,420,496. FOLDING FAN. HERMAN C. OHM, Terre Haute, Ind. Filed June 9, 1921. Serial No. 476,130. 2 Claims. (Cl. 230—33.)

1. A fan composed of three triangular pieces of cardboard connected together by three eyelets, one of said eyelets serving as a pivot connecting the three parts together and the other two eyelets serving to permit two



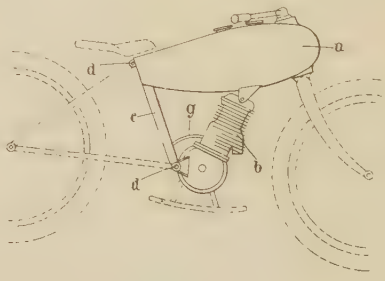
of said pieces of card board to be moved independently with respect to the third piece.

1,420,497. PINION-SHAFT HOUSING. VICTOR W. PAGÉ, New York, N. Y. Filed Apr. 20, 1921. Serial No. 462,879. 3 Claims. (Cl. 64—37.)



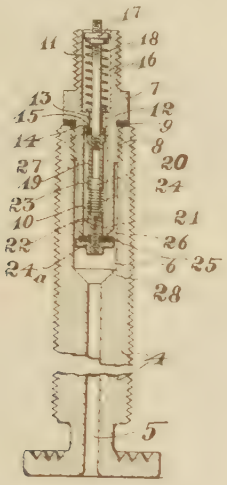
1. A pinion shaft housing for rear axle constructions comprising a tubular member projecting forwardly from the axle housing, a sleeve adapted to be received within said tubular member, said sleeve being rolled to provide continuous inwardly-disposed shoulders, a shaft, roller bearings supporting said shaft and carried within the sleeve, said shoulders forming means for preventing movement of the roller bearings longitudinally of the sleeve, and means for preventing movement of said sleeve relative to the forwardly projecting tubular member.

1,420,498. MOTOR CYCLE. JAMES ARTHUR PETERS, The White House, near Scarborough, England. Filed Jan. 12, 1922. Serial No. 528,679. 4 Claims. (Cl. 180—35.)



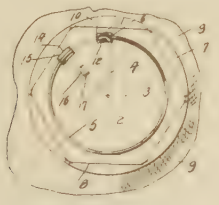
1. In a motor-cycle frame, the combination of a fuel tank serving as one structural element of the frame and a petrol supply pipe passing through said tank but having opening to the interior thereof and serving as a second structural element of the frame.

1,420,499. PNEUMATIC TIRE VALVE. HERMAN F. RICHTER, Los Angeles, Calif. Filed Feb. 12, 1921. Serial No. 444,558. 3 Claims. (Cl. 152—12.)



2. In a pneumatic tire valve, in combination with a valve body having several seats, a stem consisting of sections having valve members corresponding to the seats in the said body and having spring interconnection between the stem sections.

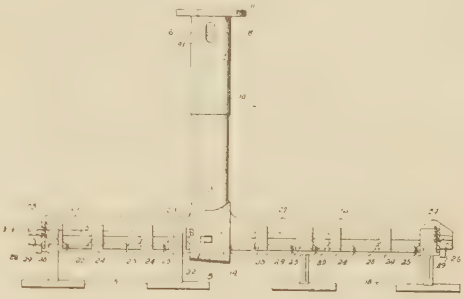
1,420,500. HATPIN. CHARLES E. ROMBOUGH, Long Beach, Calif. Filed June 8, 1921. Serial No. 475,939. 4 Claims. (Cl. 132—62.)



1. A hat pin guard comprising the combination with a guide and guard plate secured to the inner face of a hat crown and having guide lugs and a stop lug formed therewith, of a hat pin stem rotatably mounted through said crown of the hat, a straight portion of the hat pin extended from the inner end of said stem, a coil portion of the hat pin extended from said straight portion and working through and over the guide lugs of the guard shield, said straight portion engaging one of said guide lugs to limit movement of the hat pin in one direction, said straight portion engaging the stop lug to limit movement of the hat pin in the reverse direction, and an operating knob carried by said stem outwardly of said hat crown.

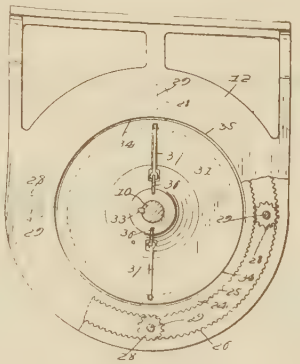
1,420,501. MECHANICAL RABBLE DEVICE. LEWIS BAILEY SKINNER, Denver, Colo. Continuation of application Serial No. 407,702, filed Sept. 2, 1920. This application filed Sept. 27, 1920. Serial No. 412,993. 11 Claims. (Cl. 263—26.)

1. Rabbling apparatus comprising in combination, a rabble shaft, a rabble arm detachably mounted on said shaft and means projecting transversely through said



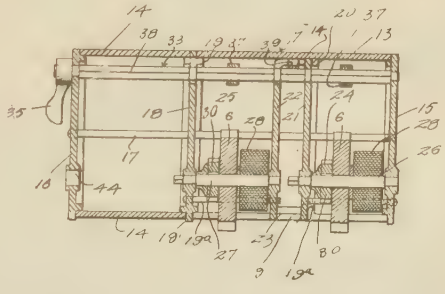
rabble shaft and arm for locking the rabble arm against movement with respect to the rabble shaft.

1,420,502. REVERSE PULLEY FOR MACHINE TOOLS, ELEVATORS, ETC. BERNARD W. SMITH, Bradford, Vt. Filed June 2, 1920. Serial No. 385,911. 2 Claims. (Cl. 74—59.)



1. A motion transmitting mechanism having driving and driven members consisting respectively of a shaft and a pulley in combination with fast elements carried by the shaft and provided with radially movable followers and a loose disk revolubly mounted concentric with the pulley, said loose disk and the pulley being provided with rims or shoulders for respective engagement by the followers of said fast elements, pinions interposed between external and internal gears respectively carried by said loose element and the pulley, and means for respectively actuating the followers of said fast elements.

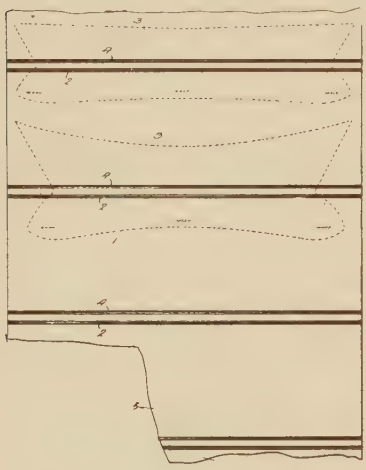
1,420,503. COMBINATION AUTOMATIC WINDOW LOCK, BALANCE, AND LIFT. PENN L. THRONE, Harrisburg, Pa. Filed Nov. 2, 1921. Serial No. 512,306. 6 Claims. (Cl. 16—201.)



6. A spring fixture for windows the same comprising a casing, a plurality of spring gears removably fitted within

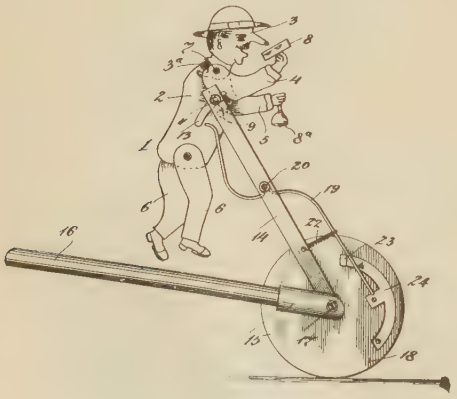
the casing, a section forming an extension of the casing whereby to adapt the fixture to walls of different thicknesses, a plate closing the outer end of the said extension, a shaft mounted in the casing and the extension thereof, and locking dogs fastened to the shaft one for each spring gear.

1,420,504. MULTIPLY INTERWOVEN FABRIC FOR COLLARS AND CUFFS. FRANK B. TWINING, Troy, N. Y., assignor to Geo. P. Ide & Company, Inc., Troy, N. Y., a Corporation of New York. Filed Aug. 19, 1921. Serial No. 493,562. 2 Claims. (Cl. 139—9.)



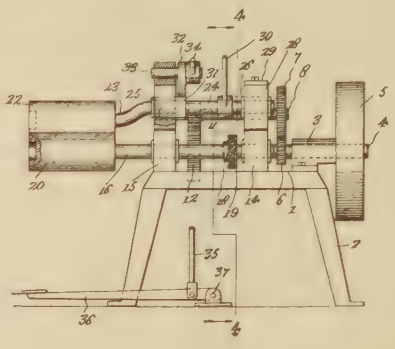
1. A multiply interwoven fabric for collars and cuffs having the warp threads increased in number in two spaced comparatively narrow adjacent zones in the fabric so that the increased warp threads constitute a guide for the fold line of the collar made from the fabric.

1,420,505. TOY. ANICETO R. VISITACION, Brooklyn, N. Y. Filed Oct. 4, 1920. Serial No. 414,607. 4 Claims. (Cl. 46—45.)



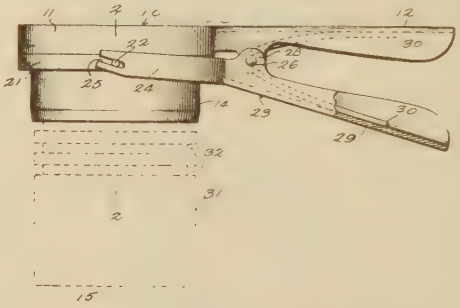
1. A toy comprising a miniature figure representation of an animate object, said figure having an oscillatory head, means for pivotally supporting said figure in depending correlation, means for imparting oscillatory movement to said figure and its head, and traction means for supporting and operating the device.

1,420,506. MACHINE FOR IRONING MILK CANS. WALTER J. WACHOWITZ, Manitowoc, Wis., assignor to Manitowoc Plating Works, Manitowoc, Wis., a Corporation of Wisconsin. Filed Apr. 9, 1921. Serial No. 460,119. 12 Claims. (Cl. 153—54.)



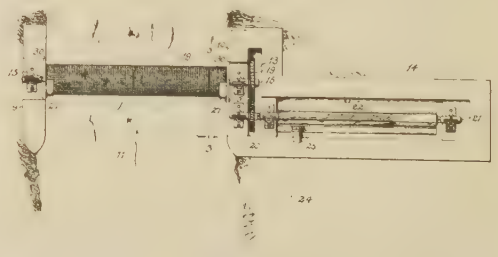
1. A machine for ironing milk cans and the like including pressure rollers adapted to roll in contact with the exterior and interior surfaces of the can to be ironed, a rotary shaft having an off-set portion carrying the pressure roller which extends upon the interior of the can and adapted upon rotation to bring the pressure roller carried thereby against the inner surface of the can and into a central position within the can to permit of the withdrawal of the can from such interior pressure roller.

1,420,507. DEVICE FOR APPLYING PISTON RINGS. HORACE S. WALDRON, Savannah, Ga. Filed Dec. 7, 1920. Serial No. 428,999. 5 Claims. (Cl. 29—86.4.)



1. In a device of the character described, a relatively stationary body portion including a depending sleeve, an ejector slidably mounted on said sleeve and provided with a pair of projecting pins, and a handle pivotally connected with said body portion and provided upon its inner end with a yoke, said yoke being provided in its ends with slots adapted to receive said pins.

1,420,508. FISH SCREEN. JAMES L. WALKER, Union, Utah. Filed June 3, 1920. Serial No. 386,216. 6 Claims. (Cl. 210—173.)

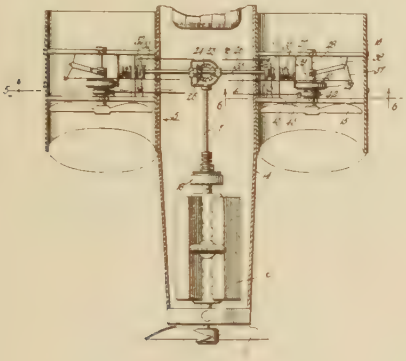


1. In apparatus of the character set forth, the combination with abutments on opposite sides of the stream, of a

rotatable screen journaled on the abutments, guards mounted on the abutments at the ends of the screen, and a guard base secured to the end guards and held in place thereby between the lower portion of the screen and the bottom of the stream.

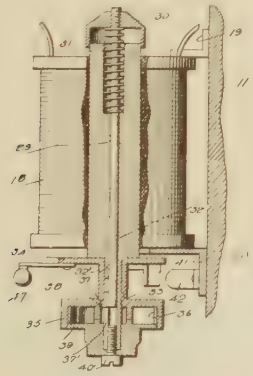
3. A fish screen for streams comprising a screen located within and extending transversely of the stream, a motor located outside of the stream, a conduit conveying water from the stream above the screen to the motor, a conduit carrying water from the motor back to the stream below the screen, and a driving connection between the motor and screen.

1,420,509. AEROPLANE-BRAKING DEVICE. JAMES BRUSH ANDERSON, Portland, Oreg. Filed Aug. 4, 1920. Serial No. 401,132. 4 Claims. (Cl. 244—25.)



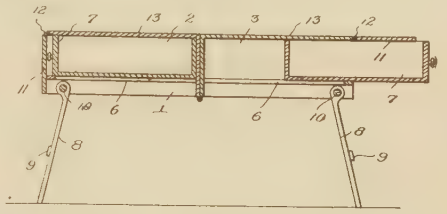
1. An aeroplane, comprising a fuselage, wings, an engine, a main propeller operated by the engine, a tube at side of the fuselage, an auxiliary propeller in each tube and means for operating each auxiliary propeller from the engine shaft, said means including reversing and speed changing mechanism.

1,420,510. BURGLAR ALARM. GIOVANNI ANTOFILLI, New York, N. Y. Filed Aug. 28, 1919. Serial No. 320,401. 3 Claims. (Cl. 200—106.)



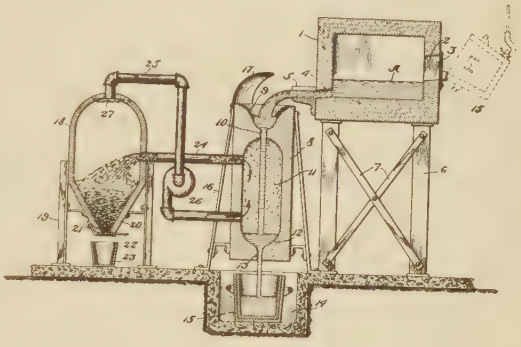
1. A switch mechanism of the class described including a fixed member, a rotary member journaled thereon having a contact member, a contact member in circuit with said contact member and engageable thereby, a spring within the rotary member to urge rotation thereof, detent means for the rotary member slidably mounted in a fixed member and having a detent member projecting therethrough to normally restrain movement of the rotary member.

1,420,511. TABLE. OCTAVIA A. ARMSTRONG, Hay Springs, Nebr. Filed Apr. 22, 1921. Serial No. 463,730. 4 Claims. (Cl. 190—11.)



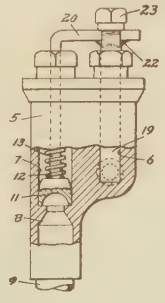
1. In a collapsible table, a carrying case formed of hingedly connected sections, the bottoms of said sections adapted to form a table top, supporting legs, the outer sides of said sections hingedly connected to said bottoms, and drawers slidably carried by said sections and adapted to be partly withdrawn to support said hinged sides flush with said bottoms.

1,420,512. PROCESS OF PRODUCING GRAPHITE. THADDEUS F. BAILY, Alliance, Ohio. Filed Jan. 31, 1922. Serial No. 533,083. 7 Claims. (Cl. 252.)



1. The method of producing artificial graphite which consists in saturating a bath of super-heated molten iron with carbon, pouring the saturated molten iron into a closed cooling chamber, cooling the iron sufficiently to throw the surplus carbon out of the bath into said chamber in the form of graphite and withdrawing the molten iron from the cooling chamber.

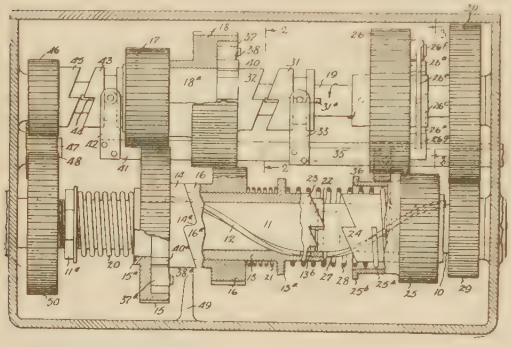
1,420,513. AUTOMATIC WATER HEATER. JAMES BEARD, Pasadena, Calif. Filed Dec. 6, 1920. Serial No. 428,777. 2 Claims. (Cl. 236—25.)



1. An automatic valve for water heaters comprising a body having a water conduit and a fuel conduit, a valve normally urged to closed position for preventing the flow of water through the water conduit, but adapted to move to open position when the pressure of the water at opposite sides of the valve is unequal, said valve including a rod projecting beyond the body and having an angu-

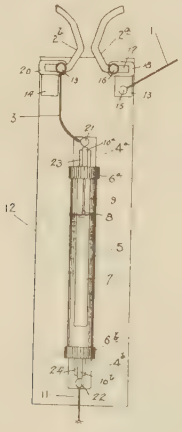
larly bent terminal, a second valve movable in the body to control the passage of fuel through the fuel conduit, said second valve having a slotted stem projecting from the body and receiving the bent terminal of the rod whereby movement of the first valve to open or closed position will effect a corresponding movement of the second valve.

1,420,514. TRANSMISSION GEAR. CLAUDE BEARENS, New York, N. Y. Filed July 15, 1921. Serial No. 484,995. 8 Claims. (Cl. 74—59.)



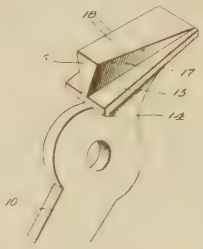
2. A transmission gear, including a drive shaft, a driven shaft and interposed gearing adapted to function at different speeds, said gearing including an automatic shift assemblage comprising a low gear element and an intermediate gear element, drive elements to actuate the low gear and intermediate gear elements, and means to cause a separation of the low gear and intermediate gear elements under undue resistance.

1,420,515. CURRENT INTERRUPTER. CHARLES E. BENNETT, Atlanta, Ga., assignor to The Service Engineering Company, Marietta, Ga., a Corporation of Georgia. Filed Sept. 9, 1919, Serial No. 322,645. Renewed Nov. 18, 1921. Serial No. 516,245. 5 Claims. (Cl. 175—215.)



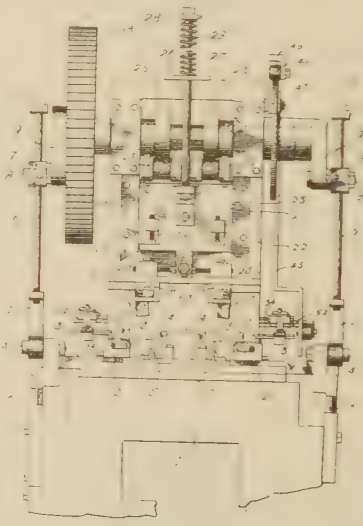
1. An automatic current interrupter comprising a liquid container, an expansion chamber therein, a terminal adapted to draw an arc in said chamber, an exterior contact electrically connected to said terminal, a second exterior contact electrically connected to the liquid in said container, in combination with a base, a pair of terminals mounted thereon and means for establishing a quick detachable connection between said terminals on the base and the exterior contacts of the interrupter.

1,420,516. BLACKSMITH'S TONGS. JOHN M. BLACK, Sr., Harrisburg, Pa. Filed Mar. 21, 1921. Serial No. 454,170. 2 Claims. (Cl. 294—43.)



1. A tool comprising a pair of pivotally connected handle members, a jaw carried by each of said members and means including relatively inclined laterally extending seats and wedge-shaped lugs extending from the seats for detachably connecting the jaws and members, whereby the latter are permitted movement independently of the former in one direction only, to detach the jaws from the pivoted member.

1,420,517. MACHINE FOR MAKING HEELS ON HORSESHOE BLANKS. ENOCH BOONE, Poughkeepsie, N. Y., assignor to Phoenix Horse Shoe Company, Poughkeepsie, N. Y., a Corporation of Illinois. Filed Dec. 22, 1920. Serial No. 432,390. 12 Claims. (Cl. 59—52.)

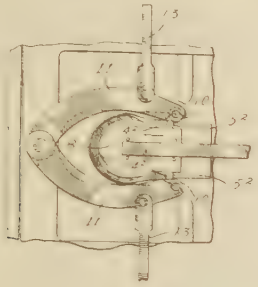


1. In a machine for forming heels on blanks for horseshoes and the like, the combination of two clamping members having end faces adapted to engage and clamp said blanks, one of said members having side faces at right angles to said blank engaging faces, bending members adapted to be moved in a direction parallel to said side face from the horizontal plane of one clamping member toward the horizontal plane of the other and bend the end portions of a clamped blank over against said side faces, and means for operating said clamping members and said bending members.

1,420,518. METHOD OF MAKING HEELED HORSESHOES. ENOCH BOONE, Poughkeepsie, N. Y., assignor to Phoenix Horse Shoe Company, Poughkeepsie, N. Y., a Corporation of Illinois. Filed Mar. 5, 1921. Serial No. 450,001. 5 Claims. (Cl. 59—61.)

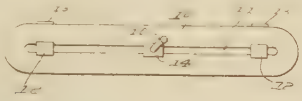
1. In the method of making horseshoes, the improvement which consists in forming a straight blank, bending the ends of said blank into planes at substantially right

angles to one surface of the body portion thereof so that the inner faces of said ends are inclined in opposite directions relatively to a plane in which the axes of said ends and body portion lie, bending the product thus formed into



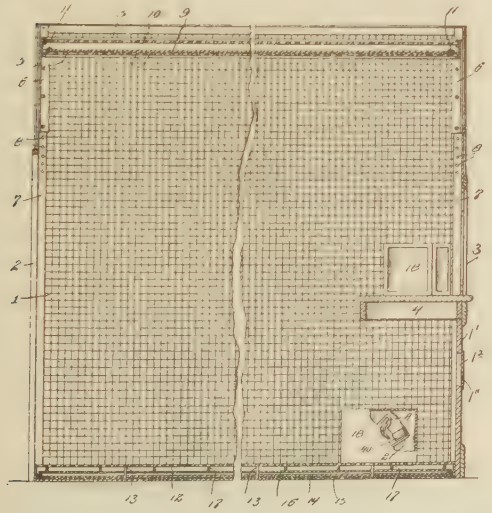
a U shape about an axis substantially parallel to the axes of said ends, and then applying swaging pressure to the outer surfaces of the legs thus formed, beginning at points removed from said ends and progressing toward said ends.

1,420,519. BOLT CLAMP. WALTER E. BRILLHART, Dallastown, Pa. Filed Aug. 27, 1921. Serial No. 495,851. 3 Claims. (Cl. 81—13.)



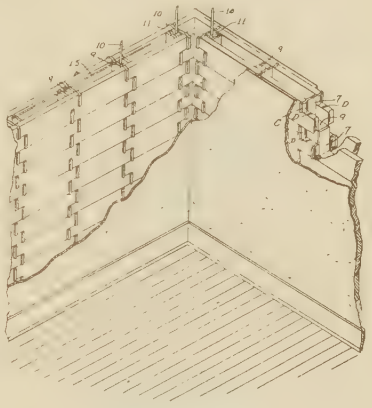
1. A bolt clamp having a bar carrying a plurality of slides, a clamping bolt adjustably mounted upon an intermediate slide and retaining elements carried by slides at opposite sides of the plane of the clamping bolt, said retaining elements having a swivel connection with the slides upon which they are mounted.

1,420,520. BANK-PROTECTION SYSTEM. WILLIAM F. CERVENKA, Traverse City, Mich. Filed June 27, 1921. Serial No. 480,894. 7 Claims. (Cl. 89—1.)



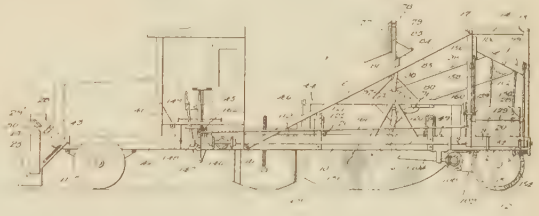
1. In combination with a room having a window therein, a gun in the room, concealing and supporting means for the gun, magnetic means for firing the gun and means in the floor and ceiling of the room for closing the circuit to the magnetic means.

1,420,521. REENFORCED HOLLOW CONCRETE WALL. MERLIN Y. CHARLES, Wichita, Kans. Filed Jan. 18, 1921. Serial No. 438,103. 2 Claims. (Cl. 72—102.)



1. In a wall construction, the combination of a plurality of slabs, longitudinally extending, superposed in spaced vertical planes; the slabs in one vertical plane being arranged also in horizontal courses with a slab of like character immediately opposite it in the other vertical plane; each slab being greater in length than the depth with the opposite corners along one edge removed; the slabs in a longitudinal course being alternately reversed in position, vertically and in abutting relationship along the longitudinal edges of their projecting end portions; and a plurality of bond blocks, superposed in alternating reversed position and in spaced vertical planes, transversely arranged intermediate said longitudinal slabs; said blocks having a central section equivalent in width to the spaced distance between the vertical longitudinal slab courses and with wing portions outwardly projecting therefrom and arranged intermediate the adjacent ends of the contiguous slab members.

1,420,522. SNOW-REMOVING MACHINE. JOHN D. COCKE, Richmond, Va. Filed Nov. 5, 1920. Serial No. 422,070. 21 Claims. (Cl. 37—62.)

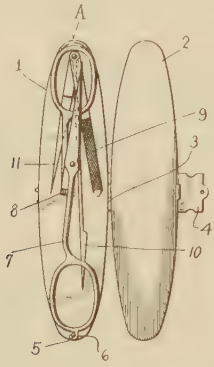


1. A machine of the character described comprising a portable frame, a collecting cotnainer carried thereby, a receptacle mounted for pivotal movement, means for conveying the contents of the container into the receptacle, means for moving the receptacle upon its pivot to a dumping position, and including a driven shaft, a second shaft rotated from said means including a rotatable shaft, flexible elements secured to the receptacle and to said shaft and adapted to elevate and lower said receptacle incident to rotation of said shaft in opposite directions.

1,420,523. TOILET-ARTICLE CASE. AMELIA CORYELL, Denver, Colo. Filed Mar. 8, 1920. Serial No. 364,006. 2 Claims. (Cl. 132—79.)

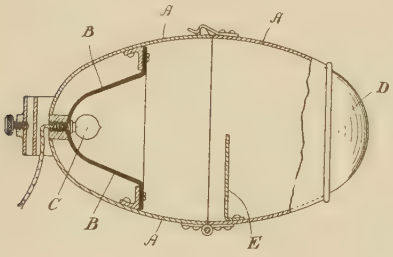
2. A device of the class described comprising a foldable case, a set of manicuring instruments having the ends of their handle portions pivotally connected with said

case and a pair of scissors having a hook at the end of one of the handle portions, a stud in said case for engaging



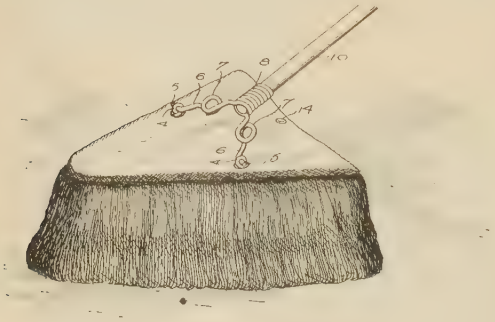
said hook, the other handle portion of the scissors being formed of two sections which are hinged together and means for holding the case in closed condition.

1,420,524. VEHICULAR AND OTHER LAMPS. WILLIAM THOMAS COULSON, Anerley, London, England. Filed Dec. 12, 1921. Serial No. 521,838. 1 Claim. (Cl 240—41.)



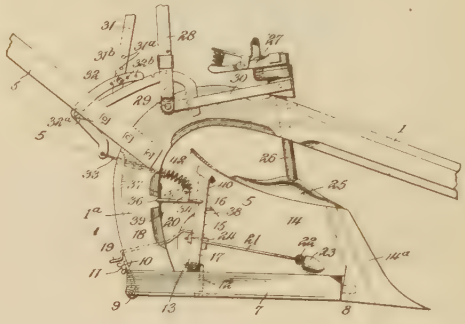
A vehicular lamp comprising a casing oval in longitudinal section, a light in one end, a parabolic reflector surrounding the light, a plano-convex lens in the opposite end, and a semi-translucent screen extending entirely across substantially the whole of the lower half of the casing and spaced from said light and lens a distance equal to the focal distance of the lens.

1,420,525. MOP. HARRY D. COWDEN, Pittsburg, Kans. Filed Sept. 2, 1921. Serial No. 497,849. 1 Claim. (Cl. 15—229.)



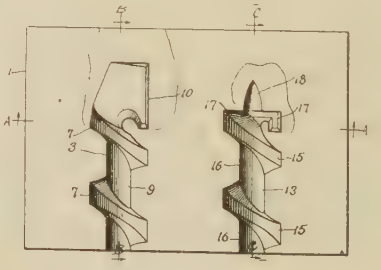
A mop comprising a casing formed of two pieces of fabric of substantially the same size and shape secured to each other along their edges, the two adjacent edges at one side of the casing being free, said casing being provided with spaced openings on its upper side, a mop secured to said casing, a mop frame adapted to be received in said casing, said mop frame being provided with portions projecting through said openings, means for closing the free side of said casing, and a handle securing member detachably engaging the projecting portions of said mop frame.

1,420,526. CONVERTIBLE HILLSIDE PLOW. RICHARD H. CRUMMETT, Monterey, Va. Filed Aug. 11, 1921. Serial No. 491,440. 5 Claims. (Cl. 97—27.)



5. A reversible hill-side plow having a plow beam and standard carrying a longitudinal shoe at the base thereof, a reversible, double mold-board carrying a plow point and swiveled at the front end to swing from side to side, a yoke secured to the rear end of the mold-board to support and swing therewith, a foot-operated crank mounted longitudinally in the base of the standard and adapted to throw the double mold-board from side to side, a transversely pivoted latch member mounted on the front side of the base of the plow standard and having spaced, longitudinal, forwardly extending arms, each terminating in a fork adapted to alternately engage one of the arms of the reversible mold-board yoke, a longitudinal pull rod, traversing the plow beam and connected to the latch and carrying a spring in advance of the beam to depress the latch to engage the yoke, a bell-crank lever mounted between the plow handles and having one arm connected to said rod, a hand lever mounted on top of the beam, a vertically movable auxiliary mold-board operated by said lever to coact with the double mold-board, and an adjustable link connecting the hand-lever to the other arm of the bell-crank to simultaneously release the said latch when the auxiliary mold-board is elevated.

1,420,527. METHOD OF PRODUCING AUGER BITS. BENJAMIN H. DAULTON, Wilmington, Ohio, assignor to The Irwin Auger Bit Company, Wilmington, Ohio, a Corporation of Ohio. Filed Feb. 7, 1921. Serial No. 442,898. 4 Claims. (Cl. 76—102.)



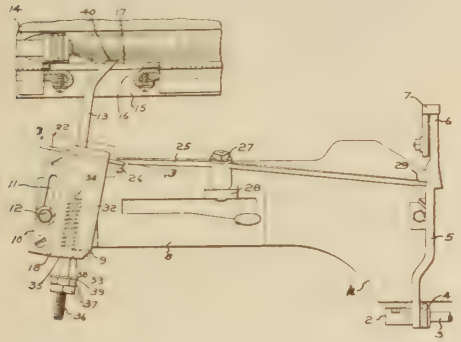
1. The herein described method of making auger bits comprising producing raw stock with a head and spirals; treating this head to a die operation to partially form the bit-head in the fashion of a plate-like piece with the surplus material reduced to a web; in subjecting this

partial product to another die operation and forming the bit-head and point from the plate-like stock, the surplus material going into a web; and in removing this web.

1,420,528. FASTENING DEVICE. EDGAR K. DAY, Wheeling, W. Va., assignor to Whitaker-Glessner Company, Wheeling, W. Va., a Corporation of West Virginia. Filed Sept. 9, 1921. Serial No. 499,554. 4 Claims. (Cl. 85—11.)

1. An attaching clip of the character described, consisting of a strip of sheet metal bent to form an intermediate leg portion and oppositely extending head and foot portions disposed in parallel planes, said leg portion having inclined prongs struck up therefrom.

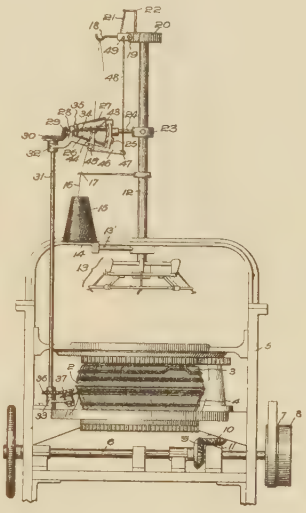
1,420,529. FEELER MECHANISM FOR LOOMS. ALVIN R. DILLABER, Grosvenor Dale, Conn., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Oct. 11, 1919. Serial No. 329,974. 4 Claims. (Cl. 139—85.)



1. In a feeler mechanism for looms, the combination of a feeler stand having front and rear guides, an inclined feeler that is supported by the guides for movement towards and from the front of the loom and in a direction longitudinally of the shuttle when on a detecting beat the filling fails to hold the feeler from sliding along the surface of the filling carrier, means operable by the movement of the feeler longitudinally of the shuttle to effect replenishment of filling, spring means for moving the feeler rearwardly; and means for returning the feeler to its normal feeling position from the filling replenishing position, including a shoulder adjacent the front guide and having a surface inclined to the filling replenishing position of the feeler, and a stop rigid with the front portion of the feeler and adapted to engage said inclined surface and impart a swinging movement to the feeler as it moves rearwardly.

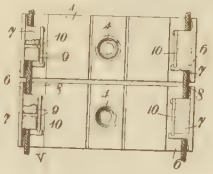
1,420,530. YARN CONTROL FOR KNITTING MACHINES. WILLIAM P. DRUMHELLER, Springfield, Mass., assignor to William Carter Company, Needham Heights, Mass., a Corporation of Massachusetts. Filed Apr. 10, 1920. Serial No. 372,980. 7 Claims. (Cl. 66—12.)

1. Means for yarn control of knitting machines comprising a pair of conical rolls, a yarn guide in proximity thereto, a rotatable needle cylinder, and operative connections between said cylinder and said rolls, whereby the latter are positively driven at a predetermined speed, a movable yarn guide, and connections between said yarn



guides, whereby a movement of the last mentioned yarn guide effects a movement of the yarn guide first mentioned, and thereby effects a change in the rate of positive feed of the yarn between said rolls.

1,420,531. ENDLESS TRACK. VALENTIN DUTKIEWICZ, Paris, and CONSTANT ISAMBERT, Ablis, France. Filed June 2, 1919, Serial No. 301,271. Renewed May 4, 1922. Serial No. 558,401. 1 Claim. (Cl. 305—10.)



In an endless track for the wheel of a vehicle the combination of a series of track plates, a plurality of rope sections for respectively connecting together each two adjacent plates, lugs attached to said track plates, holders attached to the ends of the rope sections and cover plates to secure said holders in place with respect to said lugs.

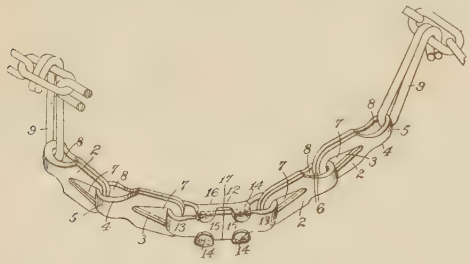
1,420,532. PIPE GRIP. WILLIAM H. EDWARDS, Garysburg, N. C., assignor of one-half to John F. Pennewell, Gumberry, N. C. Filed Nov. 9, 1920. Serial No. 422,877. 1 Claim. (Cl. 294—93.)

A fishing tool of the character described comprising an elongated body formed at one end with a threaded extension adapted for engagement wtih suspension means whereby to be lowered within a well casing, said body being formed at its other end with a spear shaped head and having its intermediate portion flattened to provide opposite parallel faces, said intermediate flattened portion being formed with a relatively narrow elongated slot, a pair of gripping jaws slidably engaged upon opposite sides of said intermediate portion and formed at

their lower ends with outward extensions defining shoulders, the lower portions of the outer surfaces of said

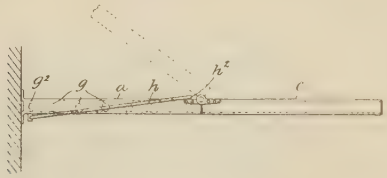
extensions being curved inwardly and downwardly, and a transverse member connecting said gripping members and slidable longitudinally of said slot.

1,420,533. ANTISKID CHAIN. RUDOLPH W. EVANS, Hamilton, Ontario, Canada, assignor to Robert N. Evans, Hamilton, Ontario, Canada. Filed Apr. 10, 1920. Serial No. 372,925. 5 Claims. (Cl. 152—14.)



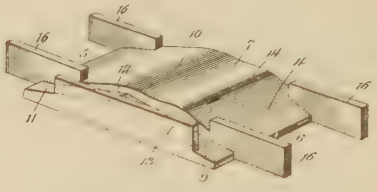
1. A center link for an anti-skid cross chain comprising a relatively wide body portion having a plurality of spaced locking projections at each side and also having a pair of narrow eye-forming portions terminating in heads, the latter adapted to be overlapped by the locking projections, a pair of said locking projections also bent in the direction of the length of the center link to overlap the inner edges of each head.

1,420,534. WARDROBE RACK. JAMES EVERITT, London, England. Filed June 5, 1920. Serial No. 386,730. 2 Claims. (Cl. 211—16.)



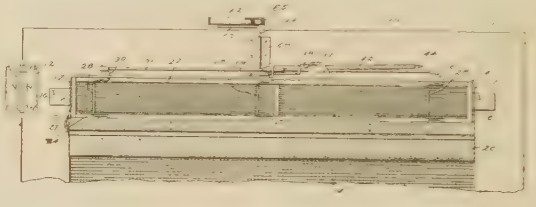
1. A wardrobe rack, comprising a tube formed of a plurality of hinged together parts adapted to open out to form a continued length and to fold to reduce said length, means for fixing one of said parts to a support so as to carry the other part, devices for rigidly securing the foldable part to the fixed part to make the tube rigid throughout its length and garment carrying runners slidable lengthwise within said tube.

1,420,535. ANTIWASHING CONSTRUCTION FOR ROADS. THOMAS H. FARRELL, Fort Collins, Colo. Filed Nov. 18, 1920. Serial No. 424,883. 5 Claims. (Cl. 94—33.)



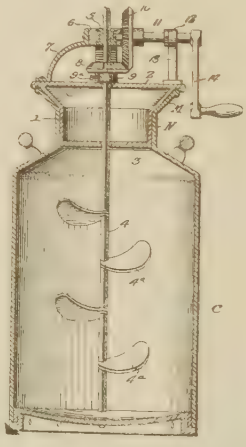
1. In road construction, a riffle block for insertion in the roadway, said block being of a length and width to extend along the roadway in the line of travel and across the roadway from substantially side to side of the traveled surface thereof, said riffle block having water-diverting means extending in a continuous manner from side to side of the roadway with said means of a depth and sufficiently extended to offer no material impediment to the travel of the vehicle along the line of travel.

1,420,536. FLY SWATTER. JOHN CARLSON FIELD, Butte, Mont. Filed Apr. 2, 1921. Serial No. 457,887. 19 Claims. (Cl. 43—119.)



4. A fly trap comprising an elongated casing having its bottom open, said casing being provided with a reticulated back and having its lower longitudinal edge portion crimped to define a baffle and an inclined wall, a swatter adapted to engage said back, and a receiver arranged beneath said casing and having one longitudinal edge portion arranged in spaced relation to the crimped portion of said back to define an entrance opening, said baffle being adapted to direct the batted flies into the receiver.

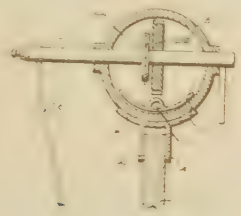
1,420,537. CHURN. TIMOTHY FLORY, Dunkirk, Ohio. Filed Dec. 10, 1920. Serial No. 429,731. 1 Claim. (Cl. 259—108.)



The combination of a closure to fit in the neck and mouth of a vessel and having spaced top and bottom mem-

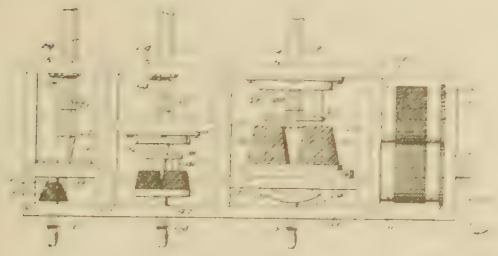
bers centrally apertured to form bearings, a dasher having a rod extending through said apertures, a block slidably mounted on said rod but having driving engagement therewith, brackets carried by said closure, a bearing supported by said brackets in alinement with the apertures in said closure and in which said rod carried block is mounted to rotate, said block and bearing having interlocking elements to prevent the longitudinal movement of the block in the bearing, a gear on said rod outside said closure having a spacing collar between it and the closure, a shaft supported by said brackets and a gear on said shaft meshing with the rod carried gear.

1,420,538. WINDSHIELD CLEANER. FRED G. FOLBERTH and WILLIAM M. FOLBERTH, Cleveland, Ohio. Filed May 16, 1921. Serial No. 469,794. 6 Claims. (Cl. 15—253.)



1. A windshield cleaner comprising a cylinder, a pair of reciprocating pistons mounted therein, means for reciprocating said pistons, a main shaft, connecting means between said shaft and said pistons to actuate said shaft when the pistons are reciprocated, a pair of cleaner shafts, means for actuating said shafts in unison, and means for connecting one of said shafts to the main shaft.

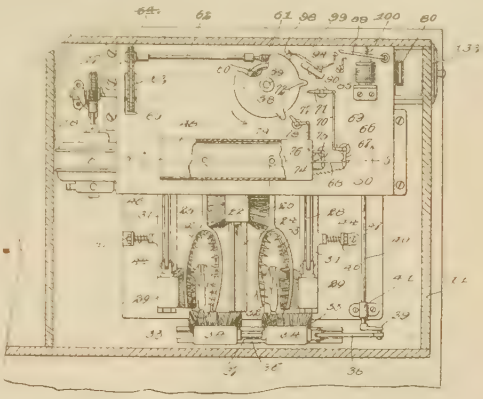
1,420,539. PENCIL SHARPENER. ADAM J. FUNSCH, Brooklyn, N. Y. Filed Sept. 2, 1920. Serial No. 407,716. 4 Claims. (Cl. 120—96.)



3. A pencil sharpening apparatus having a revolvable yoke provided with spaced parallel arms formed at their extremities with heads, an annular guide with which said heads engage, a transverse element spanning the arms of the yoke intermediate their length, cutters mounted on the arms of the yoke, a spindle extending from the yoke in a direction opposite the arms, and a crank for imparting rotary motion to the spindle.

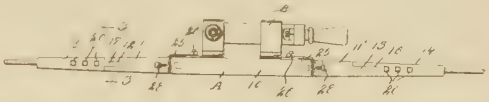
1,420,540. SHOE-POLISHING MACHINE. SALVATORE GIANDALIA, son of Antonio, Auburn, Ill., assignor of one-half to Salvatore Tani, Auburn, Ill. Filed Nov. 25, 1919. Serial No. 340,474. 4 Claims. (Cl. 15—33.)

1. The combination with a shoe polishing machine including brushes and means for operating the brushes, of a liquid reservoir, pipes for conveying liquid from the reservoir to a point adjacent the brushes, spaced alternately operated valves located in said pipes for controlling the



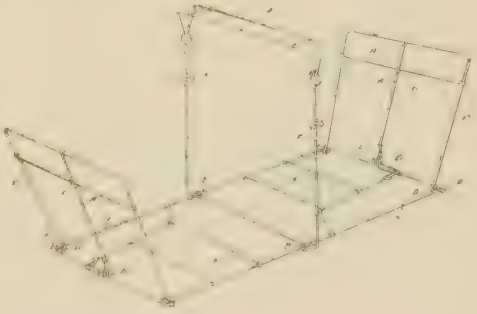
amount of liquid delivered from the reservoir and means operated by the brush operating means for controlling the operation of the valves.

1,420,541. SPLICE AND SECTIONAL INSULATOR. ZACK GRASS, Heiner, Ky. Filed Oct. 31, 1921. Serial No. 511,794. 4 Claims. (Cl. 191—39.)



1. In combination, a sectional insulator, a plurality of wire splices provided for different gauge wires, and each splice including separable sections designed for interfitting association with each other or with the opposed ends of said insulator for the purpose specified.

1,420,542. BASKET. GEORGE S. GRINER, Cleveland, Ohio. Filed Apr. 29, 1921. Serial No. 465,466. 3 Claims. (Cl. 150—49.)

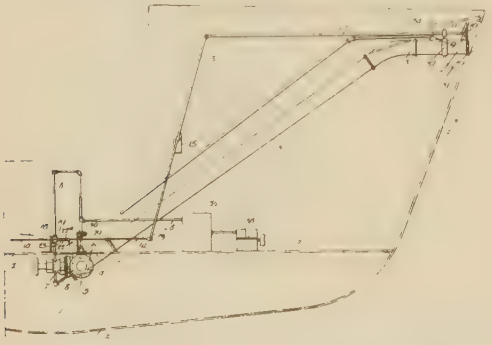


1. A basket of the class described comprising a handle part of rectangular shape having eyes on its lower bar, a pair of end frames having eyes thereon engaging the eyes of the handle part, a pair of end frames hingedly connected with the outer ends of the bottom frames, a flexible covering connected with the frames and chains extending from the outer corners of the bottom frames to the side bars of the handle part.

1,420,543. EJECTOR. EUGENE HAHN, Philadelphia, Pa. Filed Oct. 24, 1919. Serial No. 332,949. 4 Claims. (Cl. 302—51.)

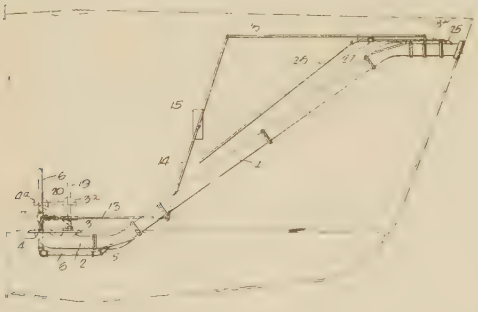
1. In an ejector, the combination with a conveyor duct having intake and discharge openings therein, of a closure

for said discharge opening, an operating rod for said closure, means for discharging a stream of fluid through said duct, a valve controlling the flow of said fluid, an operating rod for said valve, interconnecting means between said closure and valve-operating rods whereby the opening and closing of said closure effects simultaneously and respectively the opening and closing of said valve, a closure for said intake opening, a rod pivotally fixed at one end and



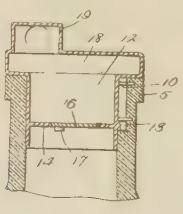
adapted to lie across said intake closure to retain the closure in place, said rod when elevated to release said intake closure being adapted to engage said valve-operating rod to retain the said valve and discharge closure in open position, and means when the said retaining rod is lowered to hold the said intake closure in position for automatically returning the discharge closure and valve to the closed positions.

1,420,544. ASH EJECTOR. EUGENE HAHN, Philadelphia, Pa. Filed Dec. 10, 1919. Serial No. 343,785. 14 Claims. (Cl. 302—20.)



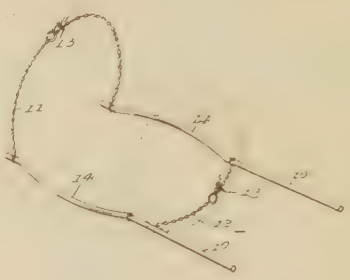
1. An ejector comprising a tubular duct having discharge and inlet openings, closures for said openings, means for injecting a stream of fluid into said duct, a valve controlling the flow of said fluid, and a single control element for simultaneously opening and for simultaneously closing said closures and said valve.

1,420,545. NONREFILLABLE BOTTLE. EDWIN A. HAYDEN, Salt Lake City, Utah. Filed Oct. 15, 1920. Serial No. 417,154. 3 Claims. (Cl. 215—14.)



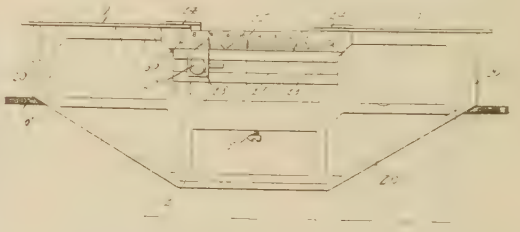
1. The combination with a bottle neck, and retainer means associated with the top of the neck for preventing removal of a stopper therefrom; of a hollow valved stopper for the neck, said stopper having an enlarged concentrically disposed head to overlap the top of the bottle neck and said retainer means and a spout extending from said head.

1,420,546. BARREL LIFT. HERMAN HERMELINK, Jr., and ROSCOE B. SHIFFNER, Kansas City, Mo. Filed Feb. 15, 1921. Serial No. 445,133. 3 Claims. (Cl. 294—15.)



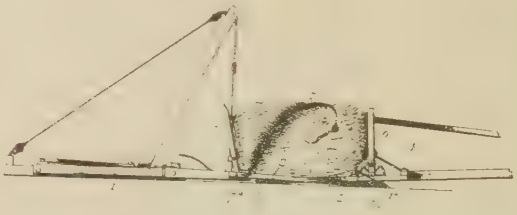
1. A barrel lift having levers or handles connected at one end and at intermediate points by transverse flexible elements for respective engagement with the opposite sides of a receptacle adjacent respectively to the opposite ends thereof.

1,420,547. SAW DRESSING AND GAGING TOOL. JAMES CLARENCE HILBURN, Thornburg, Ark. Filed Jan. 29, 1921. Serial No. 440,974. 3 Claims. (Cl. 76—46.)



1. A tool for dressing saw teeth, comprising a tooth abutment; a file rest disposed at an acute angle to the abutment; and a slide adjustable longitudinally of the rest, the slide being adapted to engage one side of a saw tooth to regulate the amount which said tooth projects beyond the file rest.

1,420,548. ATTACHMENT FOR HAY STACKERS. CALVIN E. HILTON, Witten, S. Dak. Filed Feb. 23, 1921. Serial No. 447,258. 11 Claims. (Cl. 214—144.)



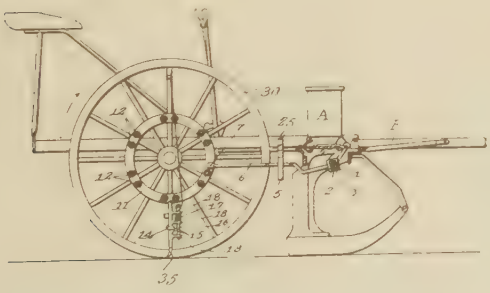
1. The combination with a hay pitcher of a needle having a comparatively short portion at one end curved downwardly below the plane of the shank of the needle

and then upwardly, terminating in a point; and an elongated eye extending rearwardly from said curved portion to the other end of the needle.

1,420,549. CLOCK. MAX HORN, Tower City, Pa. Filed Nov. 12, 1921. Serial No. 514,619. 1 Claim. (Cl. 58—2.)

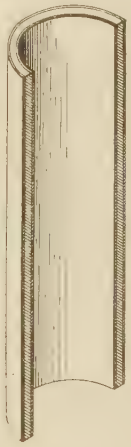
A clock embodying a base, a pair of spaced parallel guide standards rising from the base, means connecting the upper ends of the standards, a clock casing, arms extending from the opposite sides of the casing and slidingly engaging the parallel standards, a clock mechanism within the casing, a weight located within the casing, a rack bar extending upward from the base between the standards and through the clock and weight and connected to the standard connecting means, substantially L-shaped brackets mounted within the clock case and having one of their ends secured to the frame of the clock mechanism and their opposite ends connected together, a shaft having one end mounted in one of the brackets, a pinion secured upon the shaft and engaging the teeth of the rack bar, a gear loose upon the shaft and operatively connected to the clock mechanism and means whereby the gear will be locked to the shaft when the latter is rotated in one direction only.

1,420,550. MARKING DEVICE FOR PLANTERS. HERBERT JONES, Bevier, Mo. Filed Dec. 27, 1919. Serial No. 347,664. 2 Claims. (Cl. 111—2.5.)



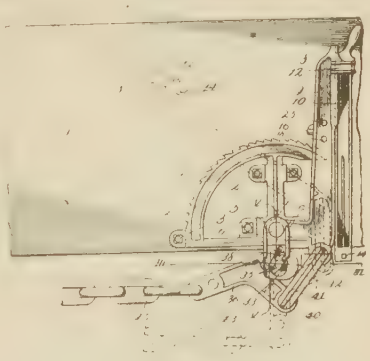
1. In a corn planter including a wheel supported frame, marking mechanism comprising an annulus secured upon one of the wheels, a bracket carried by the annulus and including hingedly connected sections, and a spring-pressed plunger connected with said sections for holding the same normally in alignment, the spring-pressed plunger being withdrawable whereby to permit folding of the outermost section with respect to the other.

1,420,551. WORKING-BARREL TUBE. ELLWOOD IVINS, Philadelphia, Pa. Filed May 10, 1921. Serial No. 468,336. 3 Claims. (Cl. 74—108.)



1. As a new article of manufacture, a working barrel tube having upon the inner surface thereof a coating of a soft metal, substantially as and for the purpose set forth.

1,420,552. CAR BRAKE. AUGUSTUS F. KLASING, Denver, Colo., assignor to The Klasing Car Brake Company, a Corporation of Colorado. Filed Mar. 5, 1918. Serial No. 220,467. 40 Claims. (Cl. 74—110.)

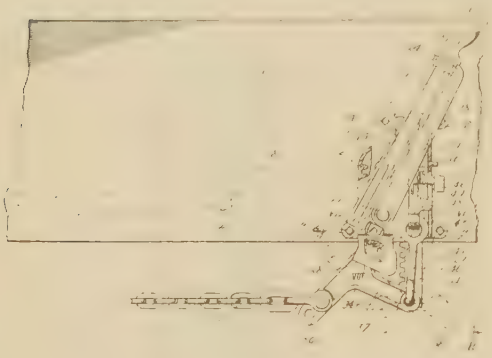


7. In a car brake, a member connected to the brake shoe mechanism of a car, manual means mounted above on a fixed support and independently of said member, and means for imparting rotary, rectilinear, and downward movements to said member when the manual means is actuated.

1,420,553. CAR BRAKE. AUGUSTUS F. KLASING, Denver, Colo., assignor to The Klasing Car Brake Company, a Corporation of Colorado. Filed Oct. 28, 1918. Serial No. 260,018. 43 Claims. (Cl. 74—110.)

1. In a car brake, a member connected to the brake-shoe mechanism of a car, means for imparting a compound movement to said member, a manually-controlled member, means for imparting a compound movement to

said manually-controlled member, and means operably-connecting said members so that the movements of said



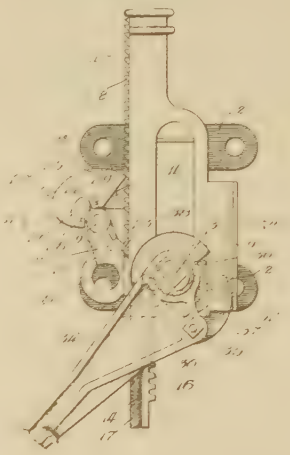
members are cumulative and act to set the brakes on a single pull of said manually-controlled member.

1,420,554. APPARATUS FOR MANIPULATING RAILWAY-CAR BRAKES. AUGUSTUS F. KLASING, Chicago, Ill., assignor to The Klasing Car Brake Company, a Corporation of Colorado. Filed July 9, 1920. Serial No. 395,061. 46 Claims. (Cl. 74—119.)

8. In combination with a railway car and its brakes, apparatus for manipulating the brakes comprising a fixed rack, a movable rack, a pinion adapted to roll on said fixed rack and raise the movable rack, a ratchet on the pinion, a lever pivoted on the pinion, and a pawl pivoted to the lever to engage the ratchet.

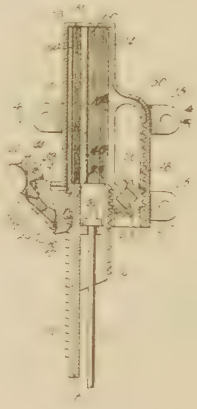
1,420,555. LIFTING DEVICE. AUGUSTUS F. KLASING, Chicago, Ill., assignor to The Klasing Car Brake Company, a Corporation of Colorado. Filed June 7, 1919. Serial No. 302,565. 22 Claims. (Cl. 74—14.)

1. In a lifting device a fixed rack, a floating gear coacting with said rack, a movable member coacting with said gear, adapted to be given multiplied movement thereby; a housing adapted to enclose the moving part; a step by step actuating means associated with the floating gear; means for holding the movable member in the raised position; means to automatically release the holding means and return the movable parts to initial position



instantaneously; means to automatically reset the holding means simultaneously with the return of the parts to initial position.

1,420,556. LIFTING MECHANISM. AUGUSTUS F. KLASING, Chicago, Ill., assignor to The Klasing Car Brake Company, a Corporation of Colorado. Filed Oct. 28, 1919. Serial No. 333,978. 6 Claims. (Cl. 254—95.)



1. A lifting mechanism comprising a housing, a hollow ratchet bar having means on the interior thereof to which a rod may be attached, arranged within said housing and adapted to move longitudinally thereof, said housing and ratchet bar formed on adjacent faces with rack surfaces, a spur gear interposed between said racks and engaging the same, means for rotating said gear to move said bar, and a pawl for preventing the return movement of said bar.

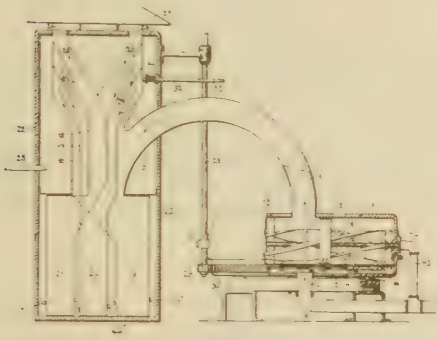
1,420,557. PROCESS OF PREPARING DRIED YEAST. ERWIN KLEIN, Voslau, near Vienna, Austria. Filed Mar. 24, 1922. Serial No. 546,501. 11 Claims. (Cl. 99—5.)

2. In the process of preparing dried yeast, the steps which comprise evaporating moisture from the yeast until its moisture content is reduced to about 50% to 60% and, before sufficient lapse of time to permit much enzymic decomposition after this moisture content is attained, mixing with the yeast a sufficient quantity of an innocuous substance having a high-moisture-absorbing capacity to reduce the moisture content of the yeast to a percentage so low as substantially to avoid deleterious decomposition, and there-

after continuing the drying until a durable dried yeast is obtained.

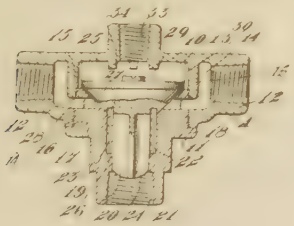
11. In the process of preparing dried yeast, the steps which comprise evaporating moisture from the yeast until its moisture content is reduced to about 60%, mixing the yeast having this reduced moisture content with a sufficient amount of an innocuous moisture-absorbent material to quickly effect a further reduction of the moisture content of the yeast to about 30%, then adding small quantities of sugar and salts having a protective action on the enzymes of the yeast and accelerating the passage of water out of the yeast cells, and continuing the drying until the moisture content of the yeast is reduced to about 15% or less.

1,420,538. PROCESS FOR DRYING YEAST. ERWIN KLEIN, Vosiau, near Vienna, Austria. Filed Mar. 24, 1922. Serial No. 546,502. 5 Claims. (Cl. 99—5.)



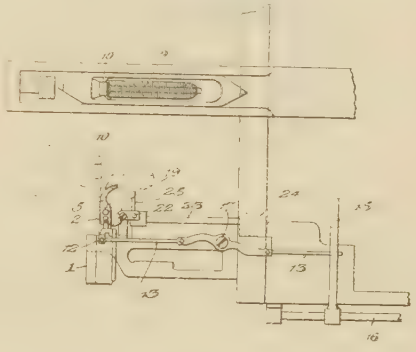
5. In the process of drying yeast, the steps which comprise simultaneously subjecting coarsely subdivided yeast masses to the action of a drying current of an innocuous gas and to such a pulverizing action that the particles of pulverized yeast are carried from the pulverization zone by the gas current, separating the yeast from the gas current and, during the entire process, maintaining the yeast and gas current at such a low temperature as not to destroy the vitality of the yeast.

1,420,559. DRAIN VALVE. FREDERICK KNIGHT, Victoria, British Columbia, Canada, assignor to John Gilbert Colville, Victoria, Canada. Filed Dec. 15, 1919. Serial No. 344,772. 1 Claim. (Cl. 121—134.)



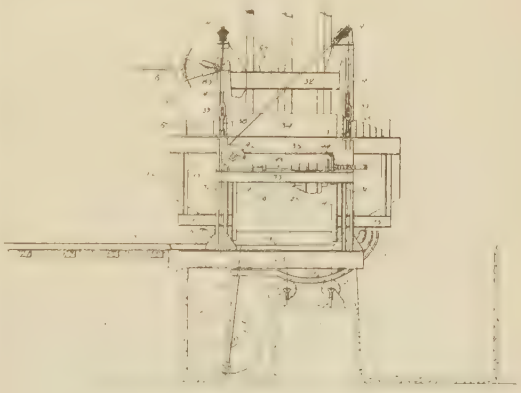
A drain valve of the character described, comprising an upper and a lower portion having screw threaded engagement with each other, the lower portion fitting into a suitable threaded recess in the upper portion, a conical valve seat formed integral with the lower portion, the upper portion having laterally extending conduits arranged in alignment, a cylindrical chamber in the upper portion communicating with the said conduits through L-shaped ports, part of the said ports are formed in the side wall of the said chamber, while the completion of the lower arms of the L-shaped port is formed in the lower portion of the casing, and extends into the conical valve seat between the top and bottom thereof, a valve on the conical valve seat having a sliding fit with the aforesaid chamber, the said chamber being provided with suitable by-passes around the valve.

1,420,560. FILLING-FEELER MECHANISM FOR AUTOMATIC LOOMS. ONESEME LANDRY, New Bedford, Mass. Filed July 12, 1920. Serial No. 395,548. 3 Claims. (Cl. 139—85.)



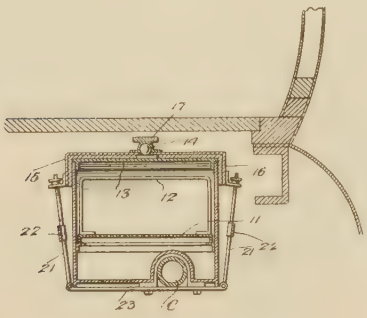
1. In a feeler device for looms, a support having a guideway, a spring tensioned slide in the guideway, a feeler pivoted to one end of the slide and extending outwardly therefrom, ratchet teeth carried by a side of the slide, a pawl pivoted between its ends and having one end engaging the ratchet teeth and having a projecting part on its opposite end and an intermittently rotating element having spaced projections for successively acting on the projecting part of the pawl to move the pawl out of engagement with the ratchet teeth at predetermined intervals.

1,420,561. ELECTRIC FURNACE. KNUT LEANDER, Albany, N. Y., assignor to Ludlum Electric Furnace Corporation, Watervliet, N. Y., a Corporation of New York. Filed May 19, 1920. Serial No. 382,673. 20 Claims. (Cl. 204—64.)



1. An electric furnace comprising independent body and roof elements, a frame in which the roof is supported and vertically adjustable, means on which the furnace body may be travelled into and out of position beneath the roof, electrodes passing through the roof to the furnace and supported by the frame, and means for tilting the frame and the furnace body, roof and electrodes supported thereby, to discharge the furnace.

1,420,562. COOKER. ROBERT J. MCBRIEN, Eastland, Tex. Filed Nov. 13, 1920. Serial No. 423,861. 2 Claims. (Cl. 126—20.)



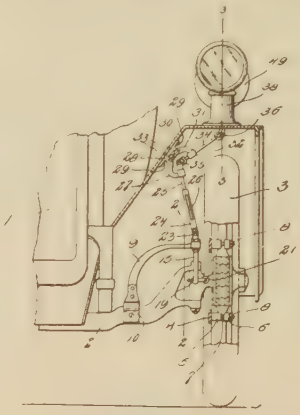
1. A device of the class described comprising a vessel having a longitudinally disposed groove in the bottom thereof to receive the exhaust pipe of a motor operated vehicle, a partition dividing the receptacle into compartments, a handle carried by said partition, an inner cover having flanges adapted to engage the walls of the vessel at the inner side thereof, a knob arranged centrally of said cover, an outer cover including flanges adapted to engage the outer sides of said walls of the vessel, a hollow knob carried by the outer cover and adapted to receive the knob of the inner cover, a lining of asbestos arranged between the respective covers, and means for holding both the receptacle and said pipe and also holding the cover in its place on the receptacle.

1,420,563. BRUSH. RICHARD C. MCGAREY, Berlin, N. H. Filed June 1, 1920. Serial No. 385,756. 2 Claims. (Cl. 15—197.)

1. A brush comprising a handle having spaced projecting arms at an end, a pin placed transversely of the space between and passing through said arms, bristles bent about said pin intermediately of their length, and means encircling the bristles, pin, and arms to hold the free ends of the bristles in substantial parallelism.

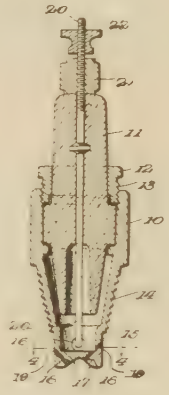
1,420,564. MOVABLE HEADLIGHT. WALTER H. MCLEOD, St. Paul, Minn. Filed Feb. 21, 1921. Serial No. 446,722. 5 Claims. (Cl. 240—62.)

1. In a dirigible headlight for automobiles, a disk secured around the hub of the steering wheel of the automobile, pivotally supported anti-frictional means contacting the disk at the opposite sides of the horizontal center of



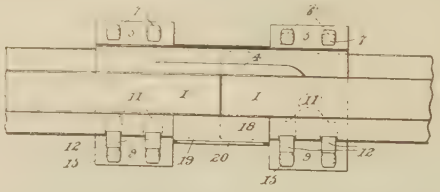
the wheel, a turnable headlight, and universally connected telescopic means connecting said headlight to said first mentioned means.

1,420,565. SPARK PLUG. JOSEPH MALLIGAN, Point Marion, Pa. Filed May 5, 1921. Serial No. 466,879. 3 Claims. (Cl. 123—169.)



1. A spark plug having a shell provided with a cylindrical closed end portion having diametrical openings therethrough, a terminal electrode extending through the shell, the end of the shell being provided with a notch, and diagonal openings extending through the walls of the notch and sides of the shell.

1,420,566. RAIL JOINT CHAIR. JOSEPH J. MARKOVICH, Uniontown, Pa. Filed Mar. 4, 1922. Serial No. 541,013. 6 Claims. (Cl. 238—195.)

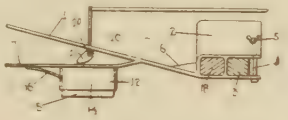


5. In a joint chair of the type described, a base plate, a fish plate formed integral with one side thereof, rail engaging clamps permanently mounted in the base plate and slidable therein for engagement with the base flanges of the rails, and means for holding the clamps in engagement with the rails.

1,420,567. WHEELED OVEN TRAY OR CARRIAGE. GEORGE MUELLER, Salt Lake City, Utah. Original application filed Aug. 23, 1920, Serial No. 405,362. Divided and this application filed Aug. 23, 1920. Serial No. 405,363. 5 Claims. (Cl. 107—56.)

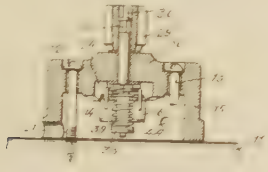
1. An oven tray comprising an open frame, adjustable pans or receptacles, supporting bars mounted upon the said frame and adapted to be arranged at different intervals, and adjusting members secured to the frame and detachably engaging the supporting bars and securing the same in their adjustments.

1,420,568. DISK SHARPENER. THOMAS NASH, Kamloops, British Columbia, Canada. Filed Feb. 14, 1921. Serial No. 444,942. 4 Claims. (Cl. 51—250.)



1. A harrow disk sharpener comprising a plate provided at one end with a clamp whereby it may be secured to the harrow frame, a spring arm secured at one end to said plate on its underside, a grinding stone detachably mounted on the under side of said arm, and a cam mounted between said plate and said spring arm the operation of which depresses said arm.

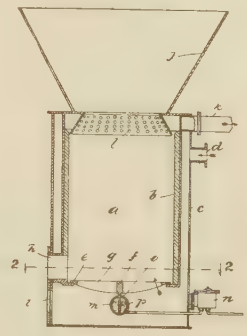
1,420,569. ELECTRIC SWITCH. ARVID H. NERO, New Britain, Conn., assignor to The Arrow Electric Company, Hartford, Conn., a Corporation of Connecticut. Filed Nov. 10, 1917. Serial No. 201,235. 9 Claims. (Cl. 200—63.)



1. In an electric switch, an insulating body having a hill and valley course, switch terminals lying in alternate valleys of said course, a rotary switch bar traveling said course, a rotary cam having inclines engaging the switch bar, the inclines of the said cam being of less pitch than the declines of the course, means to actuate said cam to lift the switch bar over the hills of the course, the switch bar lagging behind the cam during its rise over a hill portion of the course, and a spring freely engaging the switch bar to force the latter down the inclines of the cam after it passes the crest of the hill and thus to cause a forward rotation of the switch bar into the succeeding valley of the course.

1,420,570. AUTOMOBILE PRODUCER-GAS PLANT. JAMES WILLIAM PARKER, Harrow, England. Filed Aug. 29, 1921. Serial No. 496,662. 4 Claims. (Cl. 48—87.)

1. A steam generator for automobile producer gas plants comprising a vessel adapted to be supplied with water to a constant level and disposed beneath the firebars of the furnace, a projection from said firebars



adapted to project into said vessel and to dip into water therein.

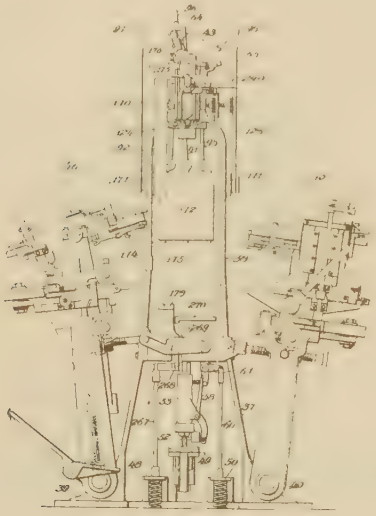
1,420,571. REENFORCED-CONCRETE POLE. JACOB PAYNE, Beatrice, Nebr. Filed May 13, 1921. Serial No. 469,199. 3 Claims. (Cl. 72—82.)

1. A pole comprising a cementitious body, a central T-shaped metal standard imbedded centrally of and extending lengthwise of the said cementitious body, cross members secured to the flat face of the standard at intervals along its imbedded portions, other members secured to the web or flange of the standard and projected at right angles to the cross members on the front face of said standard and which are imbedded in the body portion, cross stay wires that extend from the top to the bottom of the body and interlacing with the cross members on the front of the T-shaped metal standard, and other stay wires that extend from the top to the bottom of the body, the said other stay wires being disposed at right angles to the first mentioned stay wires, the said other stay wires interlacing the members attached to the web of the standard and projected at right angles with respect to the front cross members.

1,420,572. LASTING MACHINE. ANGELO PERRI, Watertown, Mass., assignor to Reece Shoe Machinery Company, Boston, Mass., a Corporation of Maine. Filed Aug. 14, 1919. Serial No. 317,498. 24 Claims. (Cl. 12—4.)

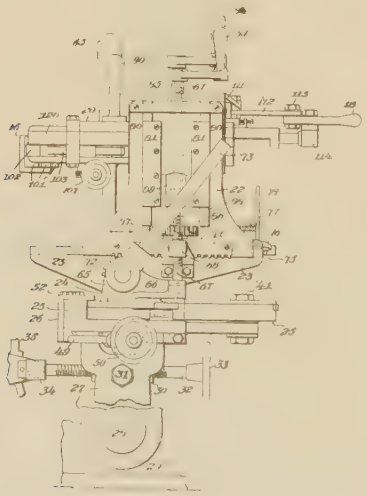
1. In a lasting machine, a plurality of pulling grippers relatively adjustable for different shoes, a plurality of separate sole abutments independent of the grippers

but also adjustable for shoes of different size or shape and adapted to be directly contacted by the shoe sole and



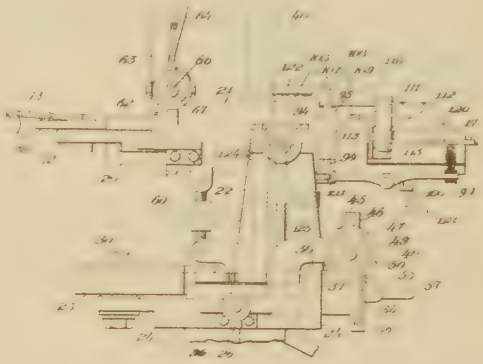
give support thereto during the pulling operations, and means operative to shift the said abutments to proper positions by the adjustment of the grippers.

1,420,573. WIPING MECHANISM. ANGELO PERRI, Watertown, Mass., assignor to Reece Shoe Machinery Company, Boston, Mass., a Corporation of Maine. Filed Aug. 14, 1919. Serial No. 317,499. 18 Claims. (Cl. 12—14.)



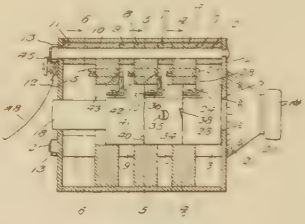
1. In a lasting machine for alternately wiping right and left shoes, a wiping mechanism, an underlying carriage bodily shiftable freely and quickly across the center line of the machine to reverse the machine for right and left shoes respectively, a transversely swingable carriage supported on said first mentioned carriage, the same quickly symmetrically reversible, and a rotatable carriage upon the swingable carriage, carrying the wiping mechanism and adapted to give quick symmetrical angular readjustment of the wiping mechanism for right and left shoes respectively.

1,420,574. WIPING MECHANISM. ANGELO PERRI, Watertown, Mass., assignor to Reece Shoe Machinery Company, Boston, Mass., a Corporation of Maine. Filed Aug. 14, 1919. Serial No. 317,500. 25 Claims. (Cl. 12—14.)



1. In a lasting machine for alternately wiping right and left shoes, a wiping mechanism, a carriage therefor rectilinearly slidable freely and symmetrically across the center line of the machine to reverse the wiping mechanism for right and left shoes and symmetrically acting stops limiting the reverse shifting of the carriage.

1,420,575. ELECTRIC COMBINATION LOCK. HERBERT RAYNER, Louisville, Ky. Filed July 27, 1920. Serial No. 399,369. 3 Claims. (Cl. 200—43.)

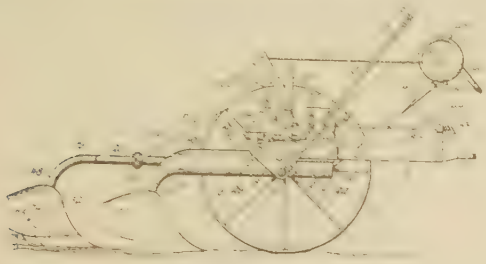


1. In an electric switch, spaced insulation disks, conductor posts arranged in pairs passing through each disk and having one of their ends dished, a spindle passing through the disks, tumblers thereon, one of said tumblers being received in each of the disks, spaced connected bridge switches carried by each tumbler having a cone-shaped end designed, when the tumblers are rotated by the spindle to certain positions to be received in the cupped ends of the posts, the central tumbler fixed on the spindle, and means, including spring influenced elements between the tumblers designed when brought into coengagement for latching the end tumblers to the central fixed tumbler, and electric conductors connected to the posts and bridge switches.

1,420,576. TRACTOR PLOW. BENJAMIN E. REED, Ridgely, Md., and JOHN E. CLIPPINGER, Philadelphia, Pa. Original application filed Apr. 17, 1919, Serial No. 290,729. Divided and this application filed Dec. 3, 1920. Serial No. 428,017. 5 Claims. (Cl. 97—30.)

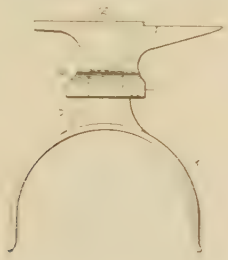
1. In a plow structure, a rockable body member mounted on an axis transverse of the structure, plow beams carried by the rockable body member and participating in the rocking movements thereof, and means for causing said rocking movements comprising a rock shaft, arms fast to and

radiating from the rock shaft, means for causing the rocking of the rock shaft, and links connecting the arms to the



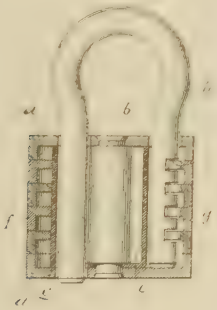
plow beams, and means located between the ends of the links and engageable over the rocker shaft for locking the rockable body in an elevated position.

1,420,577. HOUSEHOLD POUNDING BLOCK. EDWARD H. REHN and ELTON A. TOUSLEY, Lima, Ohio. Filed Apr. 16, 1920. Serial No. 374,356. 1 Claim. (Cl. 78—5.)



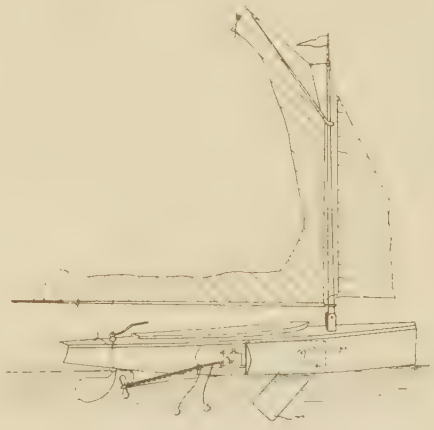
In a combination implement, a yoke having a relatively wide bearing surface and of curved formation, with a concave under surface and a convex upper surface adapted to embrace the leg of a user and to be supported on the top of the leg, a boss rising from the convex side of the yoke at the highest point thereof terminating in a lug with a shoulder at the junction of the boss and lug, and a member adapted to receive impact, having a seat of the configuration of the lug and adapted to receive said lug, the lower edge of the bearing surface resting on the shoulder at the junction of the boss and lug.

1,420,578. SAFETY PADLOCK. WALTER REICHSTEIN, Berlin, Germany. Filed Jan. 12, 1922. Serial No. 528,605. 1 Claim. (Cl. 70—113.)



A safety padlock comprising a fixed upper disc having a pair of apertures, a fixed lower disc having a single aperture, both of said discs having predetermined symbols produced upon their peripheries, a bolt riveted in said discs connecting the same in spaced relation, a cylindrical guide sleeve located between said discs and having a groove of semi-circular cross section extending lengthwise thereof, said sleeve having an aperture in registry with one of the apertures of said upper disc and with the aperture of said lower disc, tumbler rings having peripheral flanges and inwardly extending flanges, the latter being rotatably mounted upon said sleeve and having inwardly open semicircular notches adapted to register with each other in the axial direction of the lock and with the groove of said sleeve transversely of said lock to form an interior channel, said peripheral flanges having predetermined symbols produced thereon for co-operation with each other and with the symbols of said upper and lower discs to form a predetermined combination and a bow-shaped shackle having two arms, one of which is arranged to be inserted through said registering apertures within said sleeve and the other of which is arranged to be inserted through the other aperture of said top disc into said interior channel, said last-named arm having a series of spaced notches for receiving the inwardly extending flanges of said tumbler rings to lock said shackle in said padlock.

1,420,579. DRIVING MECHANISM FOR WATER CRAFT. EMIL MAX SCHNEIDENBACH, Friedrichshagen, near Berlin, Germany. Filed Mar. 29, 1922. Serial No. 547,804. 1 Claim. (Cl. 115—24.)

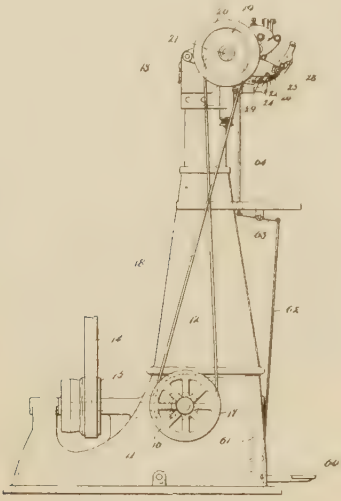


A boat propelling mechanism comprising a base plate; a plurality of upright pillars rigidly secured to said base plate; a plurality of shafts journalled in said pillars; power transmitting connections between said shafts; a casing carried by said base plate enclosing said pillars, shafts, and connections; a detachable flexible connection between one of said shafts and the propeller of said boat; a shaft journalled in one of said pillars substantially at right angles to said other shafts and extending through said casing; power transmitting connections within said casing between said last mentioned shaft and one of said other shafts; and foot operated crank members carried by said last mentioned shaft, whereby power may be supplied to the mechanism.

1,420,580. SEWING MACHINE. AUGUST R. SCHOENKY, Somerville, Mass., assignor to Reece Shoe Machinery Company, Boston, Mass., a Corporation of Maine. Filed Aug. 28, 1917. Serial No. 188,544. 7 Claims. (Cl. 112—35.)

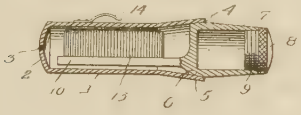
1. In a chain stitch sewing machine, a stitching shaft, a barbed needle, connections from the shaft for reciprocating the needle through a normal stroke, means to form a thread loop on the barb of the advanced needle in each normal stroke, and means for changing the needle connections to give the needle an abnormal stroke comprising

a toggle device arranged to shift the fulcrum of one of the members of such connections, adapted to cause the



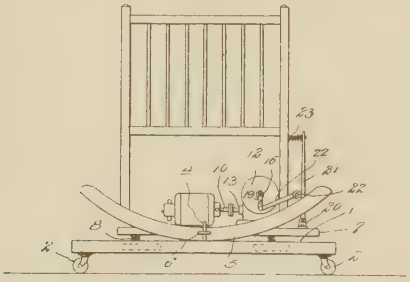
needle to advance from normal retracted position to a non-loop-taking position and thereupon to retract without a loop.

1,420,581. COMBINATION TOOTHBRUSH. HERMAN F. SCHONEMAN, Chicago, Ill. Filed Apr. 23, 1921. Serial No. 463,916. 1 Claim. (Cl. 132—84.)



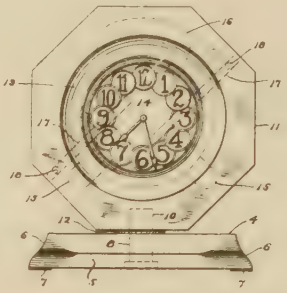
A combination tooth brush comprising a barrel having one end flared, a double cone shaped receiver adapted to have its ends interchangeably and frictionally engaged in said flared end, a brush head connected to one end of said receiver, and a cap screw threaded to and enclosing the other end of the receiver and conform to the taper thereof.

1,420,582. CRADLE ROCKER. ROBERT SHEA, Martell, Calif. Filed Jan. 16, 1922. Serial No. 529,806. 1 Claim. (Cl. 5—57.)



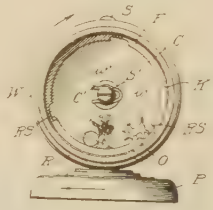
The combination with a cradle and a platform on which the cradle rests, of a means for rocking the cradle, comprising a crank shaft and means for imparting a rotary motion thereto, a link adjustably secured on the crank shaft, a resilient rocker arm disposed away from the link, a pitman connecting the rocker arm and link, and a coiled spring on the rocker arm connected to the cradle.

1,420,583. CLOCK MOUNTING. EDWARD E. SIMONS, Allentown, Pa., assignor, by mesne assignments, to Convertible Clock Case Company, Inc., Allentown, Pa. Filed Sept. 17, 1921. Serial No. 501,232. 3 Claims. (Cl. 58—56.)



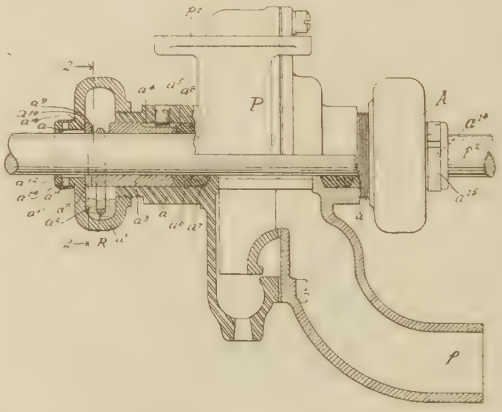
1. A mounting for alarm clocks comprising a base, an annular frame vertically pivoted on said base, said frame having notched out parts in its back part to house the clock legs and carrying stem, and clamping springs for gripping the back of the alarm clock whereby it is securely held in place.

1,420,584. TOY. OBERLIN SMITH, Bridgeton, N. J. Filed Sept. 11, 1920. Serial No. 409,603. 7 Claims. (Cl. 46—40.)



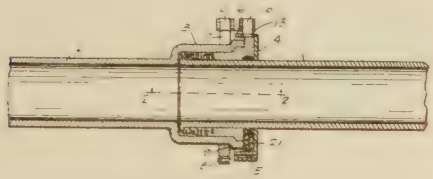
1. A toy comprising a rotatable object moving wheel, a rotatable base from which said wheel derives motion, and a pivotal connection between base and wheel having its axis concentric with the axis of rotation of the base.

1,420,585. RING OILED GLAND. WILLIAM B. SPARKS, Cincinnati, Ohio. Filed Nov. 15, 1920. Serial No. 424,028. 7 Claims. (Cl. 64—31.)



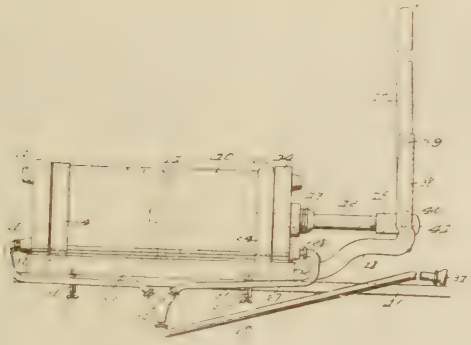
1. A packing gland for a rotating shaft having two non-rotating telescoping members, means for adjusting the relative longitudinal positions of said members, a slot through the top side of the inner member, an oil ring resting in said slot and riding upon the shaft and an oil reservoir into which the ring dips.

1,420,586. LEAD-JOINT RUNNER. JOHN A. SPENCER, Long Beach, Calif. Filed Mar. 24, 1921. Serial No. 455,119. 6 Claims. (Cl. 22—117.)



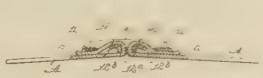
1. A lead joint runner for overlapping pipe sections comprising a recessed annulus upon the inner pipe section and having its periphery overlying the outer pipe section, packing within the recess of said annulus abutting against the end of the outer pipe section, and means for securing said annulus in position.

1,420,587. AUTOMOBILE TIRE PUMP. CARL G. SUNDEN, Chicago, Ill. Filed Dec. 21, 1920. Serial No. 432,242. 2 Claims. (Cl. 230—27.)



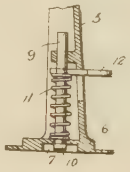
1. A tire pump for automobiles and similar vehicles having a cylinder provided with terminal heads, a bed frame for supporting the cylinder and provided with means for attachment to the running board of a vehicle, said frame having transverse cylinder embracing members consisting of downwardly bowed saddles in the plane of the frame and complemental straps extending over the cylinder and terminally attached to the extremities of said saddles, said frame having a forwardly extending bracket, and a piston operating lever fulcrumed upon the bracket.

1,420,588. BELT FASTENER. JOHN HOWARD TABLER, Washington, D. C. Filed Oct. 5, 1920. Serial No. 414,843. 4 Claims. (Cl. 24—198.)



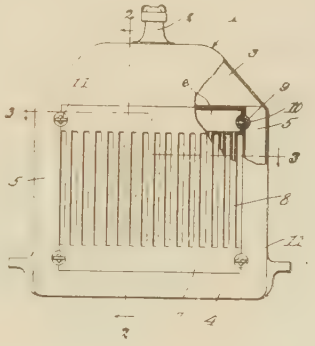
1. A fastening device for belts comprising side pieces, a cross-piece between the ends thereof with a belt engaging lower edge at its inner side, and a companion cross-bar between the side pieces in the rear of the aforesaid cross-piece around which the end of the belt is looped and passed out below the cross-piece between the body of the belt and said cross-piece, the lower edge of the cross bar being on a plane below the belt engaging edge of the cross-piece a distance approximating the thickness of the belt, substantially as shown and for the purpose set forth.

1,420,589. SUPPORT FOR PENCIL SHARPENERS. ARTHUR L. TALBOTT, Des Moines, Iowa. Filed Dec. 1, 1919. Serial No. 341,615. 2 Claims. (Cl. 287—20.)



1. In a device as set forth, a bracket, a base portion formed thereon and provided with a recess in its upper surface and with an opening entering said recess, a plunger slidably carried by said bracket, a locking head on the lower end of said plunger, a base plate provided with an upstruck portion seating in said recess and with an opening aligning with the opening in said base portion, said head adapted to be inserted through said openings and rotated to lock said base plate and bracket connected.

1,420,590. RADIATOR. ALBERT L. TAUTE, Mora, Minn. Filed Mar. 28, 1918. Serial No. 225,233. 1 Claim. (Cl. 257—125.)

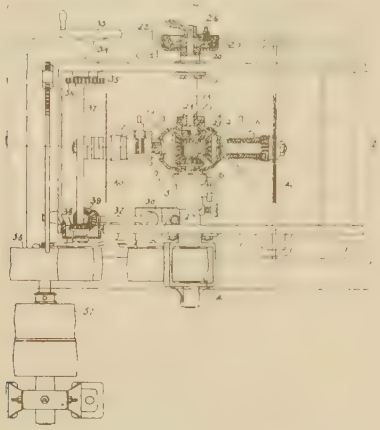


A radiator comprising a main member having a central opening and embodying a top compartment, a bottom compartment, and side conduits communicating at their ends with the compartments and having inner walls; an auxiliary member fitting within the central opening of the main member and including a top header, a bottom header and flues connecting the headers; valve casings mounted in the ends of the headers and in the inner walls of the conduits and constituting means for connecting the auxiliary member with the main member; and valves in the casings, the valves controlling communication between the headers and the conduits.

1,420,591. CONVERTIBLE WOODWORKING MACHINE. FRANK E. THOMES, Portland, Me. Filed Oct. 6, 1920. Serial No. 415,038. 13 Claims. (Cl. 144—1.)

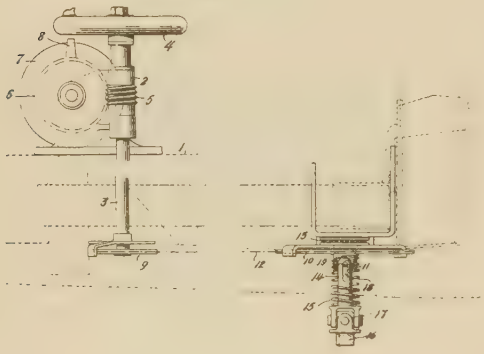
1. In a wood working machine, the combination of a main shaft, a main gear on said shaft, a pair of counter

shafts, each having on its inner end a pinion adapted to engage said gear, connected bearings for said shafts, a



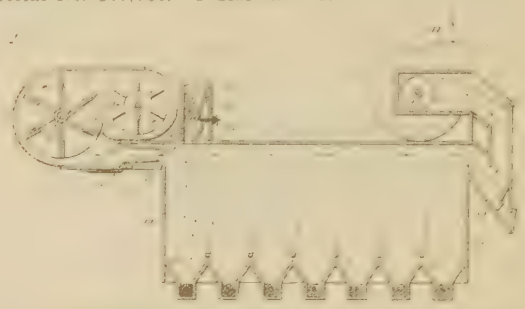
rotating cutter operated by each of said counter shafts and means for rotating the said bearings about the main shaft to change the position of said cutters.

1,420,592. MECHANISM CARRIED BY AIRCRAFT FOR ADJUSTING TORPEDOES. ARTHUR CYRIL THORNTON, Leeds, England, assignor to The Blackburn Aeroplane & Motor Company Limited, Leeds, England. Filed Sept. 1, 1921. Serial No. 497,575. 5 Claims. (Cl. 244—1.)



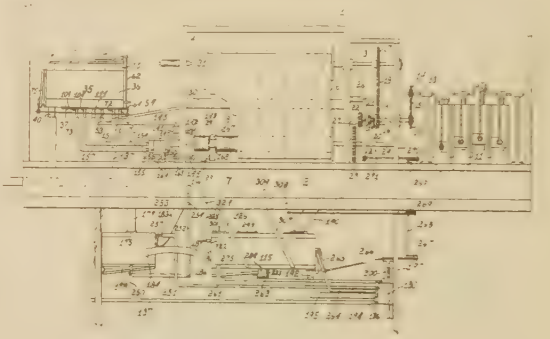
1. Mechanism carried upon aircraft for operating from a distance the adjustment studs of torpedoes also carried by said aircraft for the purpose of regulating the depth of immersion and travel of the said torpedoes; comprising a revoluble operating shaft, bearings on the framework of said aircraft to carry said operating shaft, a hand operable member on said operating shaft by which the pilot can revolve said shaft, a revoluble adjustment shaft at a distance from said operating shaft, bearings to carry said adjustment shaft, means for communicating rotary motion from said operating shaft to said adjustment shaft, a telescopic member constituting a coaxial extension of said adjustment shaft, carried thereby and revolving therewith, means for permitting said telescopic member to have movement in the direction of the axis of said adjustment shaft, a spring to hold said telescopic member in extension, a key to engage said stud of said torpedo, and a universal joint connecting said key to said telescopic member.

1,420,593. SEPARATING MACHINE. JOHN EDWARD TITCHMARSH, Silver Creek, N. Y. Filed Aug. 31, 1920. Serial No. 407,086. 4 Claims. (Cl. 130—17.)



1. The combination of a chamber, an air current equalizer extending across said chamber, and a plurality of feeders for supplying air to said equalizer at different points thereof.

1,420,594. AUTOMATIC RECORD REWIND AND REPLAY MECHANISM FOR PIANO PLAYERS. HAROLD A. VAN VALKENBURG and BURT R. VAN VALKENBURG, Oakland, Calif. Filed Nov. 28, 1919. Serial No. 341,171. 6 Claims. (Cl. 84—130.)



1. In combination with a player piano, means for automatically rewinding the record at a high speed, for automatically reducing the rewinding speed when the rewinding is nearly complete, and for automatically replaying the record at a still slower speed.

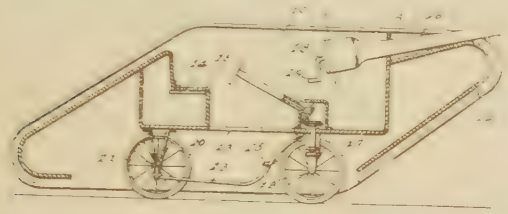
1,420,595. KNIFE-WIPING ATTACHMENT FOR TYPE-CASTING MACHINES. ENRIQUE VILLARREAL, New York, N. Y. Filed Apr. 9, 1921. Serial No. 459,912. 6 Claims. (Cl. 199—62.)

1. A device as characterized including a movable bar, a wiper carried by the bar, means for moving the bar upwardly, guiding means for causing the rectilinear movement of said bar; the said bar being free to gravitate downwardly to a normal position.

1,420,596. FERTILIZER AND PROCESS OF MAKING THE SAME. HYLEMAN ALISON WEBSTER. Columbia, Tenn. Filed July 23, 1921. Serial No. 487,104. 9 Claims. (Cl. 71—9.)

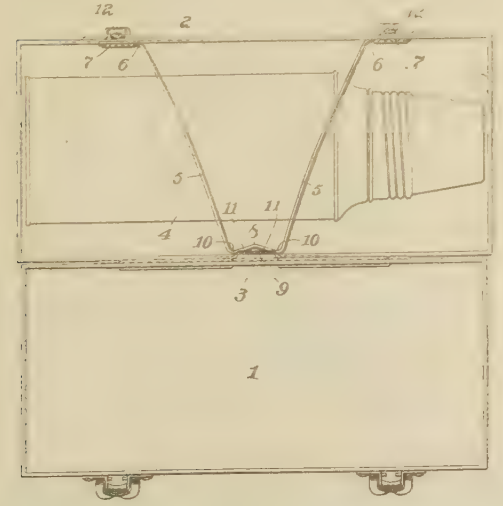
1. The process of producing a fertilizer material which consists in providing an organic material containing weed seeds, water and ammonia; adding to said material an agent adapted to fix said ammonia; and adding to the mass an agent adapted to react with said first named agent to produce a chemical heat, whereby said seeds may be destroyed and said water driven off, substantially as described.

1,420,597. TOY. MAE R. WILLIAMS, St. Louis, Mo. Filed Mar. 9, 1920. Serial No. 364,453. 1 Claim. (Cl. 208—42.)



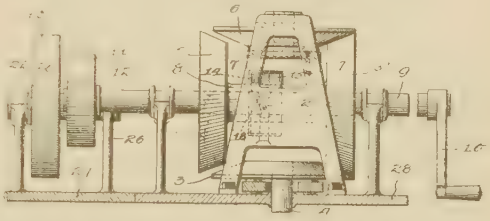
A wheeled toy comprising a body portion designed to represent a tank and including spaced side members of similar outline, inwardly directed flanges projecting from the respective side members, curved end members connecting the side members and spaced inwardly from said flanges, a bed or box-like formation arranged between the said side members and wholly disposed within the confines thereof one wall of said bed being extended entirely across the body portion of the toy and engaging the said flanges, the adjacent end of one of the curved end members being connected with said wall, a gun projected through said wall and reposing upon said adjacent curved member, a seat supported by said bed and connected with the other of said curved end members, said seat and bed defining a compartment by the intervening space therebetween, a hinged door forming part of one of said side members, means for propelling said toy and means for steering the latter.

1,420,598. LUNCH KIT. EDWARD H. WILLIAMSON and TOLBERT N. RICHARDSON, Philadelphia, Pa.; said Richardson assignor to said Williamson. Filed Nov. 9, 1920. Serial No. 422,816. 2 Claims. (Cl. 206—4.)



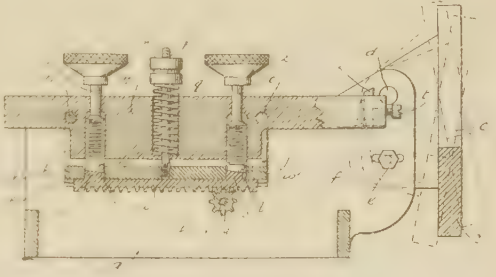
1. A lunch box comprising a body and a top hinged thereto, clasps for securing the top to the body, members of said clasps being mounted on the top, and a holder for a thermos bottle or the like, comprising a member hinged to the free or unhinged side of the top back of the clasp members thereon and means on the hinged side of the top to engage the free end of the holder to retain the same in place, substantially as described.

1,420,599. ALTERNATING ROTARY GEARING. FRANK E. WILLIAMSON, Glasco, Kans. Filed Nov. 26, 1921. Serial No. 517,840. 8 Claims. (Cl. 74—50.)



1. The combination of a driven shaft carrying a bevel gear, a pair of bevel drive gears, a shaft to which the drive gears are fixed so they move together, the shaft being so mounted that it is free to move longitudinally to bring one or the other of the gears it carries into working engagement with the gear on the driven shaft, means for turning the shaft carrying the drive gears, a projection carried by the shaft, and means with which the projection engages arranged to intermittently shift the shaft laterally and bring the drive wheels alternately into working engagement with the driven wheel, whereby the latter and its shaft are reversed by the continuous rotation of the driven shaft.

1,420,600. KEY-SEATING MACHINE. CHRISTIAN WINKLER, Portland, Oreg. Filed June 2, 1920. Serial No. 386,018. 2 Claims. (Cl. 90—41.)

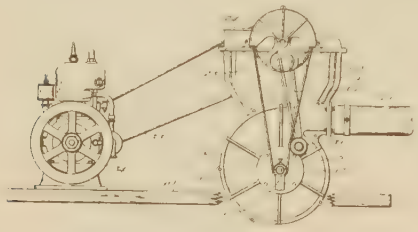


1. In a machine of the character described, a main frame, a horizontally reciprocable slide mounted in said frame, a rack carried by the bottom of said slide, a pinion meshed with said rack, said rack having studs one at each end projecting through holes in the bottom of the slide, said holes being adapted to permit said rack limited sliding motion in said slide, the tops of said studs being beveled and a correspondingly beveled block resting on each stud, a tool holder pivoted in said slide with a screw at each end in said tool holder, said screws adapted for seating on said blocks, yielding means adapted to hold either of said screws in engagement with its block.

1,420,601. PLANT-DUSTING MACHINE. JACOB H. WRIGHT, Louisville, Ky. Filed Feb. 13, 1922. Serial No. 536,302. 5 Claims. (Cl. 43—148.)

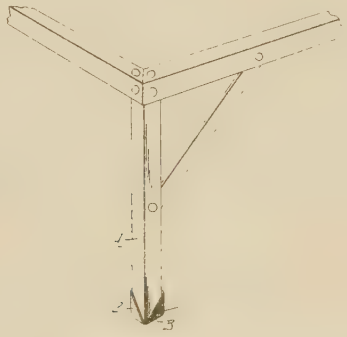
1. In a plant dusting machine, a hopper having a bottom provided with a multiplicity of perforations, means

beneath said bottom for opening and closing the perforations, a tubular member beneath said hopper arranged to



provide air inlets close beneath the hopper bottom, and a blower fan having its suction side connected to said tubular member.

1,420,602. SHOE FOR THE LEGS OF METAL COTS AND OTHER ARTICLES. MARTIN J. WUJEK, Buffalo, N. Y., assignor to Hard Mfg. Co., Buffalo, N. Y. Filed Jan. 2, 1917. Serial No. 140,006. 2 Claims. (Cl. 16—42.)

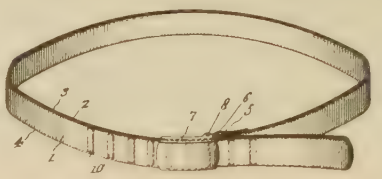


1. A shoe for the ends of legs and the like made of flanged bars, consisting of a metal piece having an end plate extending across the end of the flanged bar, side portions extending upwardly from said end plate in close contact with the outer sides of the flanges of the bar, and securing flaps extending from said side portions around the edges of the flanges of the bar in close contact with the inner sides of said flanges and cooperating with said side portions to grip the flanges of the bar to retain the shoe in place.

1,420,603. SELF-RIGHTING DESK SIGN. CHARLES ZIMMERLI, Rochester, N. Y. Filed Apr. 13, 1921. Serial No. 461,009. 8 Claims. (Cl. 40—146.)

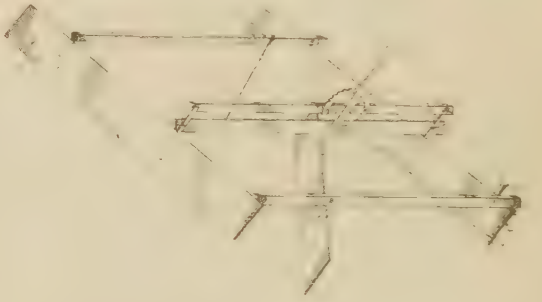
1. A self righting desk sign comprising a prismatic body of substantially triangular cross section, said body being weighted upon its base face, and one of the other converging faces being provided with means for retaining and displaying a sign card.

1,420,604. NONSLIP BELT. BONA ALLEN, Jr., Buford, Ga. Filed June 6, 1921. Serial No. 475,512. 2 Claims. (Cl. 241—8.)



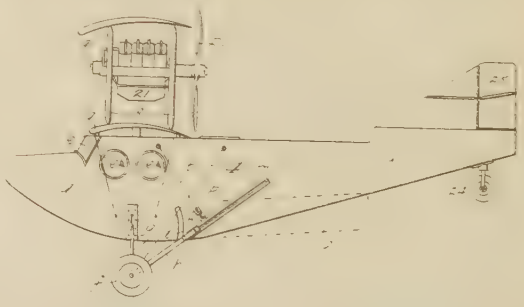
1. An improved belt having a buckle secured at one end and provided with a buckle tooth, said belt composed of inner and outer plies secured together, and numbers of strips secured between the inner and outer plies and forming shoulders adapted to be engaged by said tooth of the buckle, substantially as described.

1,420,605. ROAD DRAG. EDWARD S. ANDERSON, Mabel, Minn. Filed Sept. 20, 1919. Serial No. 325,188. 1 Claim. (Cl. 37—5.)



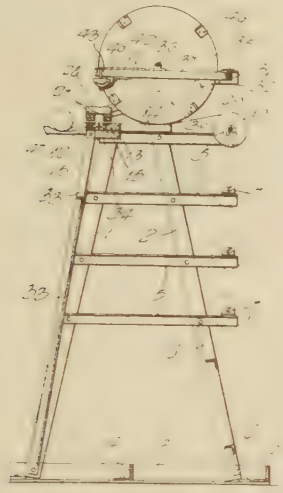
A road drag including end bars in substantial parallelism, a pair of parallel blades pivotally connected to said bars, an additional pair of bars one spaced above the other in the center of the drag, rods pivoted to both of said last-mentioned bars at their ends, and connected with said blades, an additional blade located between the parallel blades and at an angle thereto, a rod pivotally connecting the last-mentioned blade to an end bar, and a rod terminating in a handle connected with said blade and pivotally connected with each bar of said pair of bars, and means for holding the handle in a desired position respecting said pair of bars, the whole so arranged that oscillation of said handle about said pivots varies the angle of each of the blades simultaneously.

1,420,606. HYDROAEROPLANE. JAMES B. ANDERSON, Portland, Oreg. Filed Aug. 26, 1920. Serial No. 406,063. 6 Claims. (Cl. 244—2.)



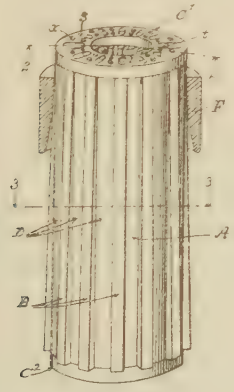
1. In a hydroaeroplane a fuselage adapted to constitute a cabin completely enclosed in the forward part and having rearwardly extending hollow side wall portions, and a pontoon hinged between such wall portions and adapted to be raised there-between.

1,420,607. FABRIC DISPENSING AND MEASURING MACHINE. SAMUEL R. ANDERSON and LEO F. CAMPBELL, Hardin, Ill. Filed Dec. 30, 1920. Serial No. 434,054. 4 Claims. (Cl. 33—130.)



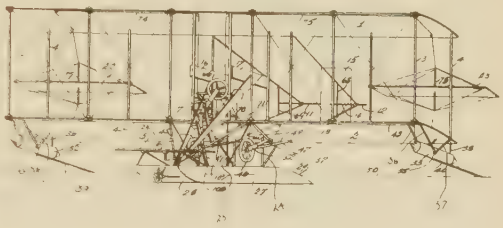
1. A measuring machine comprising a stand, a track bar having a longitudinally extending slot provided with side receiver, a knife carriage slidably mounted in the slot for movement longitudinally therein and provided with side ribs fitting into the side recesses of the groove of said track bar to support the carriage, a knife carried by the carriage and extending above the track bar, a pressure bar hingedly mounted and of its own weight resting upon the track bar and having a slot to receive the knife carried by said knife carriage, means for measuring material drawn transversely over the track bar, means for imparting movement to the knife carriage, and means for yieldably retaining the carriage at one end of the track bar and returning the carriage to its original position.

1,420,608. APPARATUS FOR PRODUCING FLUTED COLUMNS OF SHEET METAL. WILLIAM ANDREW, Cincinnati, Ohio. Filed Dec. 16, 1920. Serial No. 431,196. 2 Claims. (Cl. 153—70.)



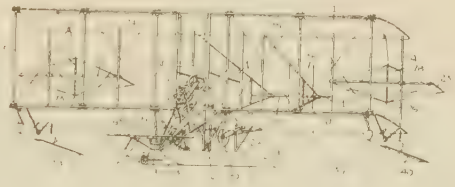
1. In an apparatus for fluting sheet metal for street lamp supports and other uses, the combination of a hollow cylindrical casing adapted to receive a sheet metal blank bent approximately to cylindrical form; said casing being provided with closely associated equi-distant slots through said casing parallel to its axis; a corresponding series of slides adapted to be moved radially in said slots as guides and impinge upon said blank; and means for applying external pressure centripetally to the slides simultaneously.

1,420,609. HYDROAEROPLANE. GLENN H. CURTISS, Hammondsport, N. Y., assignor to Curtiss Aeroplane & Motor Corporation, a Corporation of New York. Filed Aug. 22, 1911. Serial No. 645,340. 26 Claims. (Cl. 244—2.)



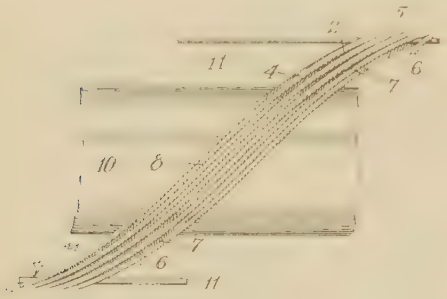
12. A hydro-aero-machine comprising a main aeroplane supporting surface, lateral stabilizing aeroplane surfaces to create a difference of lift, a main water-borne central boat structure adapted to support the entire machine when on the water, and except for the aeroplane lift, constituting substantially the entire supporting element at all speeds so long as the boat structure is traveling in contact with the water, relatively small horizontal water balancing floats located below the supporting plane and beyond each side of said boat structure, said floats being located above the level of the boat bottom and provided with surfaces inclined downwardly and rearwardly, adapted to be acted upon by the rush of water when the machine loses its lateral equilibrium, and means for operating the stabilizing surfaces to create a difference of air lift.

1,420,610. METHOD OF GETTING A HYDROAEROPLANE OFF THE WATER INTO THE AIR. GLENN H. CURTISS, Garden City, N. Y., assignor to Curtiss Aeroplane & Motor Corporation, Garden City, N. Y., a Corporation of New York. Original application filed Aug. 22, 1911, Serial No. 645,340. Divided and this application filed May 2, 1922. Serial No. 557,925. 1 Claim. (Cl. 244—2.)



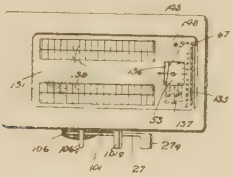
The method of operating a hydroaeroplane on the water to effect flight therefrom into the air, which consists in driving the hydroaeroplane machine at sufficient speed on the water to cause said machine to hydroplane to partly lift itself up in the water to reduce water resistance, and while thus hydroplaning, rocking the machine longitudinally to produce, through such rocking action, an aeroplane lifting effect of sufficient magnitude to overcome the suction encountered in breaking the machine from the water and to support the entire weight of the machine.

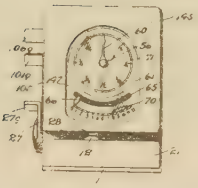
1,420,611. METHOD OF CONSTRUCTING PNEUMATIC TIRES. FREDRICK S. DICKINSON, New York, N. Y. Filed Feb. 26, 1915. Serial No. 10,667. 9 Claims. (Cl. 154—14.)



3. The method of making a tire skeleton, which comprises winding cord spirally around a support to produce a fabric web, and thereafter shifting said cord to change the angle of the cord elements relative to the sides of said fabric web.

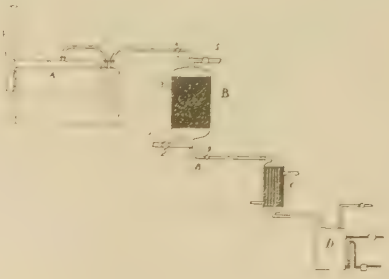
1,420,612. MEASURING AND COMPUTING MACHINE. ANTHONY VANDERVELD, Grand Rapids, Mich., assignor of one-half to Stephen E. Parrish, Grand Rapids, Mich. Filed Jan. 28, 1921. Serial No. 440,578. 23 Claims. (Cl. 33—133.)





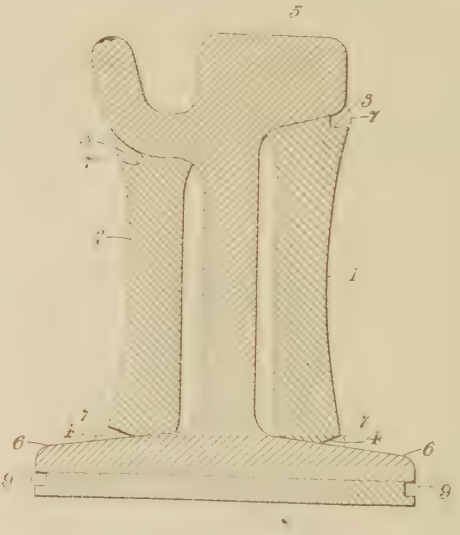
1. In a machine of the character described, means for measuring cloth or like material by drawing the same through the machine, a dial indicating fractions of yards located at and visible from one end of the machine, a scale to indicate yards likewise visible from the same end of the machine, a hand movable over the dial and operatively connected with the measuring means for rotation through one complete revolution with each yard passed through the machine, an indicating member visible from above the machine and also indicating fractions of a yard, means for driving the same by the measuring means through one revolution with each yard passed through the machine, a second scale indicating yards visible from above the machine, and a double pointed lever having its ends associated with and movable over the scales, and means for moving said lever from the measuring means to move its pointer ends from one scale indication to another on the said scales with each yard of material passed through the machine.

1,420,613. METHOD OF VOLATILIZING, DISTILLING, OR SEPARATING ABSORBED VAPORS. CLYDE L. VORESS, New York, N. Y., and VERNON C. CANTER, Bradford, Pa., assignors to Gasoline Recovery Corporation, a Corporation of Delaware. Filed Dec. 9, 1921. Serial No. 521,232. 27 Claims. (Cl. 196—25.)



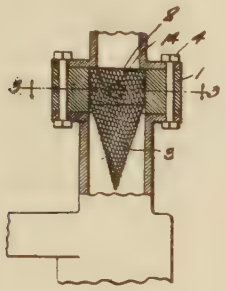
13. In a process for the recovery, or removal, of vapor mixtures from gas mixtures by the method of absorption in a solid absorbent and the subsequent distillation of the vapors therefrom by heated distillation vapors, the step of passing the distillation vapors into intimate contact with charged absorbent for a time only sufficient to volatilize the major portion of the absorbed vapors therefrom, and the subsequent passing of substantially denuded gas through said absorbent for the displacement of the condensates of the distillation vapors.

1,420,614. WELDED JOINT FOR TRAMWAYS AND LIGHT RAILWAYS. GEORGE WALLACE, Sheffield, England, assignor of one-half to Harry Bolton, Sheffield, England. Filed Feb. 16, 1922. Serial No. 536,980. 2 Claims. (Cl. 238—164.)



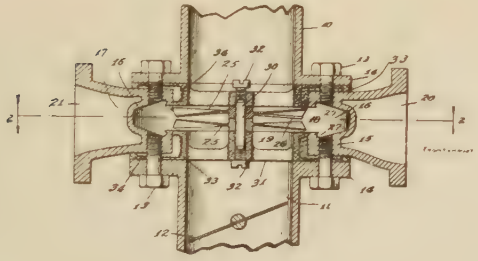
1. A rail joint comprising in combination with the abutting rail ends, a flat sole plate parallel to and in contact with the base of each rail and substantially equal in width to the rail base, the plate having its upper longitudinal edges cut away to provide, between the plate and adjacent portions of the rails, recesses for the reception of welding material.

1,420,615. AUXILIARY AIR-INLET DEVICE FOR INTERNAL-COMBUSTION ENGINES. PAUL J. WEBER, Kansas City, Mo., assignor of one-half to Sidney S. May, St. Louis, Mo. Filed Dec. 20, 1917, Serial No. 208,144. Renewed Apr. 27, 1922. Serial No. 557,032. 1 Claim. (Cl. 48—180.)



An attachment of the character described comprising a block having a central opening therein, a filter arranged within the opening and including a tapered conical portion depending from the block, and a tubular strainer projecting transversely through the block and through the said filter.

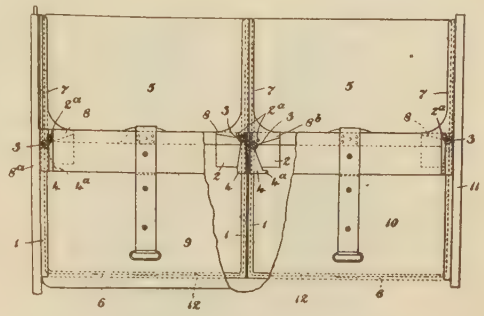
1,420,616. GASIFIER. LAURENCE J. MAY, Indianapolis, Ind., assignor to Charles E. Sargent, Rock Island, Ill. Filed May 2, 1921. Serial No. 465,966. 11 Claims. (Cl. 48—180.)



1. In combination, a member provided with a passage through which explosive mixture may be supplied to an internal combustion engine, said member being provided with an annular chamber surrounding such passage, one or more wind wheels mounted in such passage and arranged to be rotated by the passing stream of fluid therethrough, said wind wheel or wind wheels being arranged to discharge by centrifugal force into such chamber the fuel caught by their blades, and means for heating such chamber.

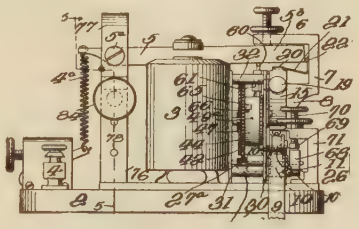
1,420,617. WINDOW OF ROAD VEHICLES. FREDERICK JAMES REES, London, England. Filed Mar. 28, 1922. Serial No. 547,522. 2 Claims. (Cl. 296—48.)

1. A window fitting for vehicles, comprising U-shaped runners adapted to fit between the walls of the pockets in the vehicle body, plates at the upper end of said runners having bearing pieces thereon, foldable U-shaped runners pivoted to the upper end of said first named runners and having portions thereof adjacent the pivot shaped to rest against said bearing pieces when the pivoted runners are



folded, whereby the foldable runners may be supported in a horizontal position between the pocket walls.

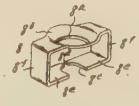
1,420,618. SIGNALING APPARATUS. JACOB MARVIN ROBERTS, Norfolk, Va. Filed Sept. 22, 1917, Serial No. 192,747. Renewed Sept. 10, 1921. Serial No. 499,862. 16 Claims. (Cl. 178—89.)



16. In a signaling apparatus, the combination with the powder depositor and the removable deposit receiver, of an electro-magnetically actuated hammer-like device for imparting blows to the depositor.

REISSUES.

15,388. VALVE-SPRING SUPPORT FOR VALVE GRINDING. GLEN W. FLEMING, Cleveland, Ohio. Filed Mar. 25, 1921. Serial No. 455,589. Original No. 1,360,515, dated Nov. 30, 1920, Serial No. 345,059, filed Dec. 15, 1919. 10 Claims. (Cl. 29—86.3.)

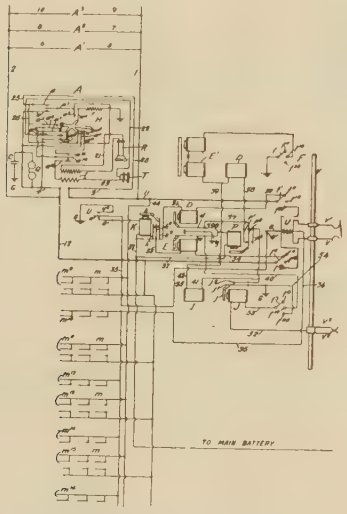


1. A valve spring support comprising a spring receiving frame having a push rod engaging portion for positioning the support with reference to the push rod and spring.

15,389. AUTOMATIC TELEPHONE-EXCHANGE SYSTEM. CHARLES LANE GOODRUM, New York, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 28, 1916. Serial No. 81,049. Original No. 1,156,475, dated Oct. 12, 1915, Serial No. 249,380, filed Mar. 10, 1905. 59 Claims. (Cl. 179—17.)

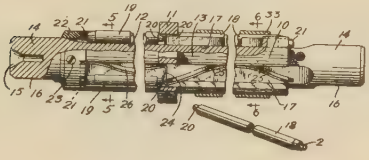
1. In an automatic telephone system, a central exchange including a connector switch, subscribers' lines extending therefrom, a plurality of subscribers' stations, a plurality of sources of characteristic signaling current, each connector switch being associated with but one of said sources,

a signaling device individual to each subscriber's station responsive to a characteristic signaling current, and a plu-



rality of said devices connected to one of said lines, and means whereby subscribers connected to other lines may select and call one of the said plurality of subscribers.

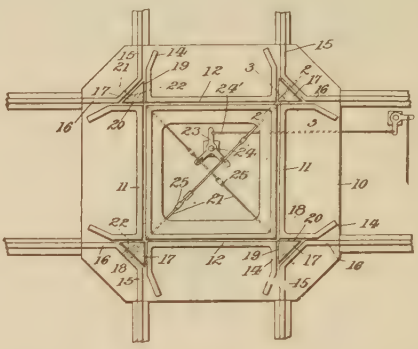
15,390. SELF-GRIPPING MANDREL. ELMER O. GOODRMAN, Norge, Va., assignor to The Efficiency Machine Tool Products Co., Bridgeport, Conn., a Corporation of Connecticut. Filed Aug. 3, 1921. Serial No. 489,634. Original No. 1,323,855, dated Dec. 2, 1919, Serial No. 301,466, filed June 3, 1919. 18 Claims. (Cl. 18.)



1. A work-holding mandrel having driven and driving portions, said portions being provided with means for automatically forming driving connections respectively with a machine driving element and with a piece of work to be driven.

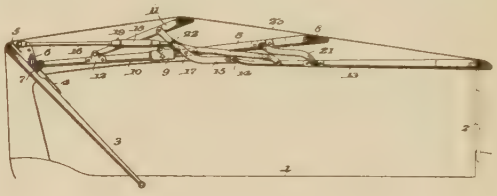
15,391. RAILROAD CROSSING. BYRON E. WILSON, Marion, Ohio, assignor to The Eymon Crossing Company, Marion, Ohio, a Corporation of Ohio. Filed Aug. 11, 1921. Serial No. 491,572. Original No. 1,321,691, dated Nov. 11, 1919, Serial No. 303,028, filed June 10, 1919. 5 Claims. (Cl. 246—380.)

3. In a railway crossing, the combination of a supporting bed having intersecting rail sections, with a movable intersecting connecting-member, means for sliding same upon said bed, the connection between said operating means and said movable member being located below the bed and comprising cam actuating parts, said parts being so arranged that during the operating movement of the movable member they would be in close contact but would be capable of being moved out of contact for the purpose



of permitting the detachment of the operating means from the movable member, substantially as specified.

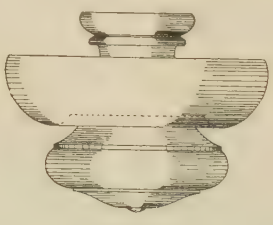
15,392. VEHICLE TOP. WATSON MACKEWEN, Detroit, Mich. Filed Dec. 6, 1920. Serial No. 428,802. Original No. 1,286,692, dated Dec. 3, 1918, Serial No. 236,258, filed May 24, 1918. 5 Claims. (Cl. 296—116.)



5. A vehicle top framework comprising a body bow, pieces of hardware, on said bow, an intermediate breakdown jointed bow pivotally connected to said pieces of hardware, an outrigger bow, and arms pivotally connected to said pieces of hardware above the pivotal connections of said intermediate bow with said pieces of hardware, said arms being pivotally connected to said outrigger bow and to said intermediate bow in advance of the joints thereof, and each piece of hardware having series of openings permitting of the arms being connected to said pieces of hardware so that the forward end of the outrigger bow may be adjusted.

DESIGNS.

61,076. LIGHTING FIXTURE. HARRY C. ADAM, St. Louis, Mo. Filed Sept. 3, 1921. Serial No. 498,552. Term of patent 14 years.

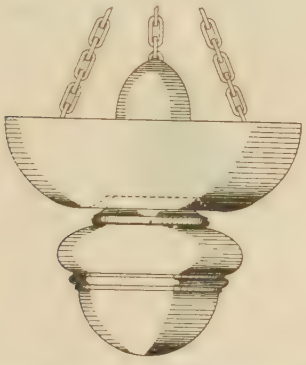


The ornamental design for a lighting fixture, as shown.

61,077. LIGHTING FIXTURE. HARRY C. ADAM, St. Louis, Mo. Filed Sept. 3, 1921. Serial No. 498,553. Term of patent 14 years.

The ornamental design for a lighting fixture, as shown.

61,078. LIGHTING FIXTURE. HARRY C. ADAM, St. Louis, Mo. Filed Sept. 3, 1921. Serial No. 498,555. Term of patent 14 years.

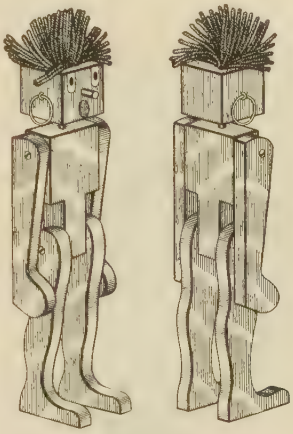


The ornamental design for a lighting fixture, as shown.

61,079. TOY. FRANCIS D. AMMEN, St. Louis, Mo. Filed Apr. 9, 1921. Serial No. 460,075. Term of patent 7 years.

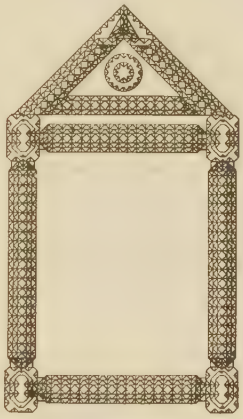
An ornamental design for a toy as shown.

61,080. DOLL. HERBERT C. BEAGARY, Philadelphia, Pa. Filed Jan. 14, 1922. Serial No. 195. Term of patent 7 years.



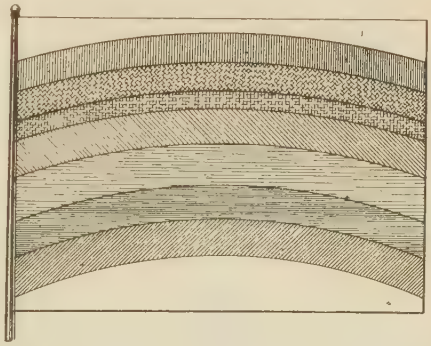
The ornamental design for a doll as shown.

61,081. FRAME. ADAM BOOTRYM, Scranton, Pa. Filed Feb. 9, 1922. Serial No. 631. Term of patent 7 years.



The ornamental design for a frame as shown.

61,082. FLAG. HILMA C. A. BOWMAN, Minneapolis, Minn. Filed Aug. 6, 1917. Serial No. 184,757. Term of patent 3½ years.

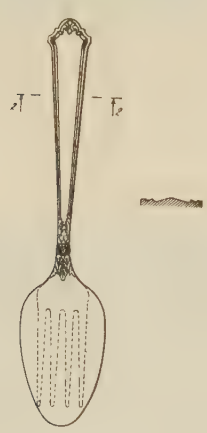


The ornamental design for a flag, as herein described and shown.

61,083. DOLL. MARY CARETTO, Bisbee, Ariz. Filed Jan. 12, 1922. Serial No. 184. Term of patent 3½ years.

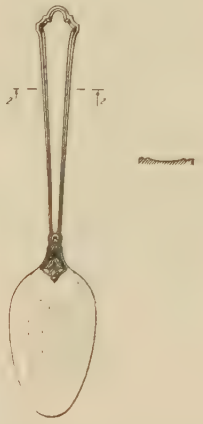
The ornamental design for a doll, as shown.

61,084. HANDLE FOR A SPOON, FORK, OR SIMILAR ARTICLE. WILLIAM CODMAN, Providence, R. I., assignor to Gorham Manufacturing Company, Providence, R. I., a Corporation of Rhode Island. Filed Oct. 31, 1921. Serial No. 511,932. Term of patent 14 years.



The ornamental design for a handle for a spoon, fork or similar article, substantially as shown.

61,085. HANDLE FOR A SPOON, FORK, OR SIMILAR ARTICLE. WILLIAM CODMAN, Providence, R. I., assignor to Gorham Manufacturing Company, Providence, R. I., a Corporation of Rhode Island. Filed Oct. 31, 1921. Serial No. 511,933. Term of patent 14 years.



The ornamental design for a handle for a spoon, fork or similar article, substantially as shown.

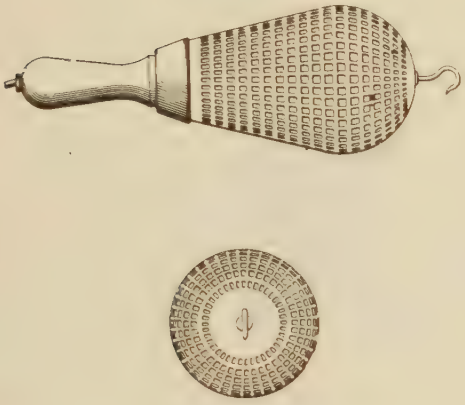
61,086. HIGHWAY SIGN. CHARLES F. COOKE, Chicago, Ill. Filed Oct. 13, 1921. Serial No. 507,545. Term of patent 14 years.

The ornamental design for a highway sign, as shown.

61,087. LADY'S SHOE. SEVERINO DANNOLFO, South Barre, Mass. Filed Mar. 10, 1920. Serial No. 364,873. Term of patent 14 years.

The ornamental design for a lady's shoe as shown.

61,088. ELECTRIC HEATER. GEORGE R. DEBNAM, JR., Baltimore, Md. Filed May 16, 1921. Serial No. 470,005. Term of patent 14 years.

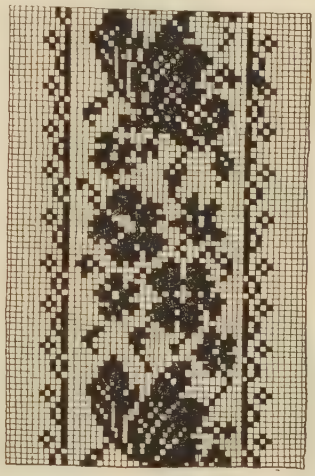


The ornamental design for an electric heater as shown.

61,089. TEXTILE FABRIC. LAWRENCE E. ELLIS, New York, N. Y. Filed Mar. 9, 1922. Serial No. 1,097. Term of patent 7 years.

The ornamental design for a textile fabric substantially as shown.

61,090. TEXTILE FABRIC. LAWRENCE E. ELLIS, New York, N. Y. Filed Mar. 9, 1922. Serial No. 1,098. Term of patent 7 years.



The ornamental design for a textile fabric substantially as shown.

61,091. BELT. THOMAS FISHER, Toronto, Ontario, Canada. Filed May 27, 1921. Serial No. 473,153. Term of patent 3½ years.

The ornamental design for a belt, as shown.

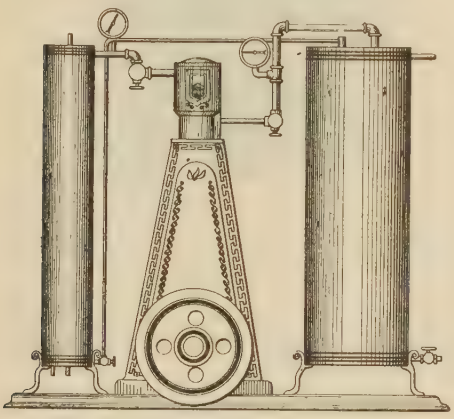
61,092. TEXTILE FABRIC. HOWARD J. GORGAS, Reading, Pa., assignor to Vanity Fair Silk Mills, Reading, Pa., a Corporation of Pennsylvania. Filed May 12, 1921. Serial No. 469,060. Term of patent 14 years.

The ornamental design for a textile fabric as shown.

61,093. BUTTON. BENJAMIN H. GROSSMAN, Providence, R. I. Filed Apr. 4, 1922. Serial No. 1,527. Term of patent 3½ years.

The ornamental design for a button as shown.

61,094. REFRIGERATING MACHINE CASING OR FRAME. GEORGE R. JARMAN, Baltimore, Md. Filed June 29, 1918. Serial No. 242,685. Term of patent 3½ years.

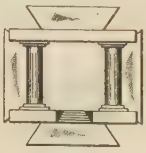


The ornamental design for a refrigerating machine casing frame, as shown.

61,095. BUTTON. RICHARD KUNO, New York, N. Y. Filed Oct. 10, 1921. Serial No. 506,879. Term of patent 7 years.

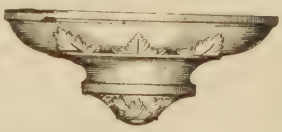
The ornamental design for a button, as shown.

61,096. CHARM. ALFRED B. LEMON, Providence, R. I. Filed Mar. 4, 1922. Serial No. 1,040. Term of patent 14 years.



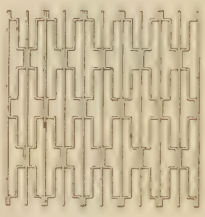
The ornamental design of a charm, as shown.

61,097. CEILING PLATE. ISAAC LEVY, Brooklyn, N. Y. Filed Sept. 20, 1921. Serial No. 502,073. Term of patent 3½ years.



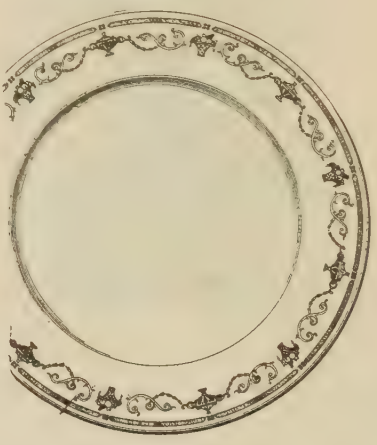
The ornamental design for a ceiling plate as shown.

61,098. GRATING. WALTER H. LOWN, Jersey City, N. J., assignor to Kerlow Steel Flooring Co., Jersey City, N. J., a Corporation of New Jersey. Filed Dec. 7, 1921. Serial No. 520,724. Term of patent 14 years.



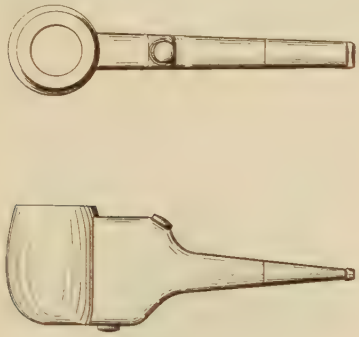
The ornamental design for a grating as shown.

61,099. PLATE OR SIMILAR ARTICLE. CHARLES A. MAY, Trenton, N. J., assignor to Maddock Pottery Company, Trenton, N. J. Filed Oct. 24, 1921. Serial No. 510,154. Term of patent 14 years.



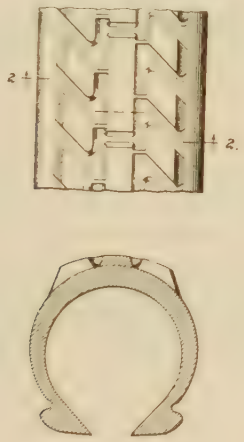
The ornamental design for a plate or similar article as shown.

61,100. TOBACCO PIPE. FRANCIS A. MCKAGNEY, Wilmington, Del. Filed July 5, 1921. Serial No. 482,610. Term of patent 14 years.



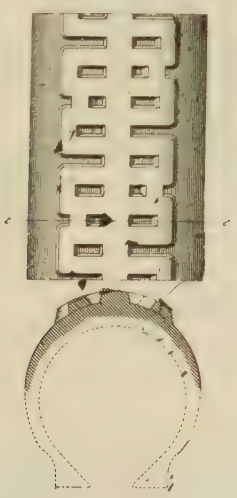
The ornamental design of a tobacco pipe.

61,101. TIRE TREAD. CHASE F. OFENSEND, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed July 28, 1921. Serial No. 488,250. Term of patent 14 years.



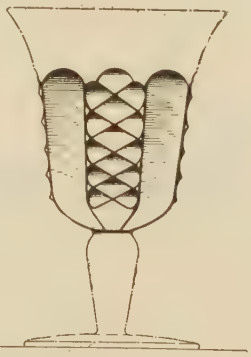
The ornamental design for a tire tread, as shown.

61,102. TIRE TREAD. HERMAN WATSON OSBORN, Bedford, Ohio. Filed Oct. 27, 1921. Serial No. 510,971. Term of patent 14 years.



The ornamental design for a tire tread as shown.

61,103. ORNAMENTATION FOR A GOBLET, BOWL, OR SIMILAR ARTICLE. WILLIAM A. REAPER, Monroe, Mich. Filed Aug. 26, 1921. Serial No. 495,831. Term of patent 7 years.



The ornamental design for ornamentation for a goblet, bowl, or similar article, as shown.

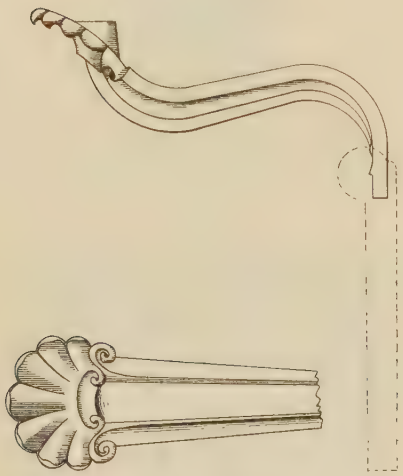
61,104. LAMP SHADE. FREDERICK ROETTGES, Stamford, Conn., assignor to S. Robert Schwartz, New York, N. Y. Filed Apr. 8, 1922. Serial No. 1,639. Term of patent 7 years.

The ornamental design for a lamp shade as shown.

61,105. LIGHTING-BRACKET BACK PLATE. MILTON B. ROLLER, San Francisco, Calif., assignor to Thomas Day Company, San Francisco, Calif., a Corporation of California. Filed Aug. 1, 1921. Serial No. 489,081. Term of patent 14 years.

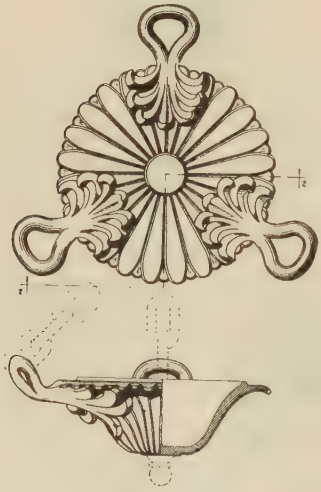
The ornamental design for a lighting bracket back plate substantially as shown.

61,106. LIGHTING-BRACKET BACK PLATE. MILTON B. ROLLER, San Francisco, Calif., assignor to Thomas Day Company, San Francisco, Calif., a Corporation of California. Filed Aug. 1, 1921. Serial No. 489,082. Term of patent 7 years.



The ornamental design for a lighting bracket back plate substantially as shown.

61,107. PLATE FOR LIGHTING FIXTURES. MILTON B. ROLLER, San Francisco, Calif., assignor to Thomas Day Company, San Francisco, Calif., a Corporation of California. Filed Aug. 1, 1921. Serial No. 489,083. Term of patent 7 years.

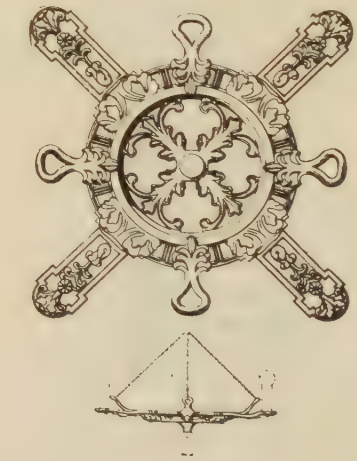


The ornamental design for a plate for lighting fixtures substantially as shown.

61,108. PLATE FOR LIGHTING FIXTURES. MILTON B. ROLLER, San Francisco, Calif., assignor to Thomas Day Company, San Francisco, Calif., a Corporation of California. Filed Aug. 1, 1921. Serial No. 489,084. Term of patent 7 years.

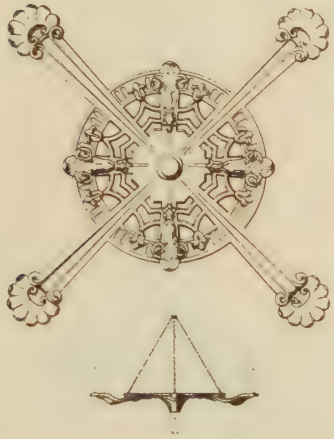
The ornamental design for a plate for lighting fixtures substantially as shown.

61,109. LIGHTING FIXTURE. MILTON B. ROLLER, San Francisco, Calif., assignor to Thomas Day Company, San Francisco, Calif., a Corporation of California. Filed Aug. 1, 1921. Serial No. 489,085. Term of patent 7 years.



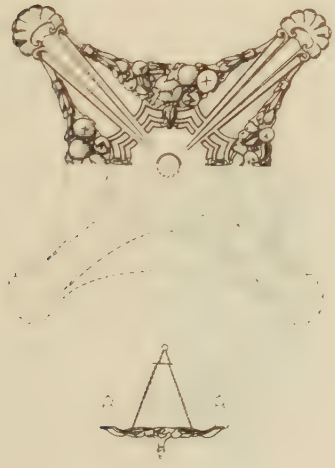
The ornamental design for lighting fixtures substantially as shown.

61,110. LIGHTING FIXTURE. MILTON B. ROLLER, San Francisco, Calif., assignor to Thomas Day Company, San Francisco, Calif., a Corporation of California. Filed Aug. 1, 1921. Serial No. 489,086. Term of patent 7 years.



The ornamental design for lighting fixtures substantially as shown.

61,111. LIGHTING FIXTURE. MILTON B. ROLLER, San Francisco, Calif., assignor to Thomas Day Company, San Francisco, Calif., a Corporation of California. Filed Aug. 1, 1921. Serial No. 489,087. Term of patent 7 years.

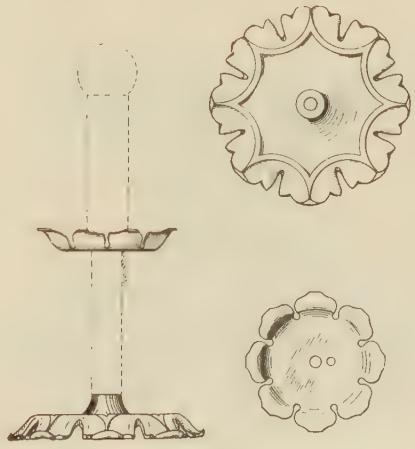


The ornamental design for a lighting fixture substantially as shown.

61,112. LIGHTING FIXTURE. MILTON B. ROLLER, San Francisco, Calif., assignor to Thomas Day Company, San Francisco, Calif., a Corporation of California. Filed Aug. 1, 1921. Serial No. 489,088. Term of patent 7 years.

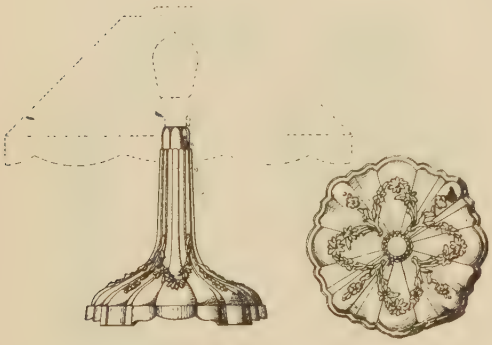
The ornamental design for a lighting fixture substantially as shown.

61,113. LIGHTING FIXTURE. MILTON B. ROLLER, San Francisco, Calif., assignor to Thomas Day Company, San Francisco, Calif., a Corporation of California. Filed Aug. 1, 1921. Serial No. 489,089. Term of patent 14 years.



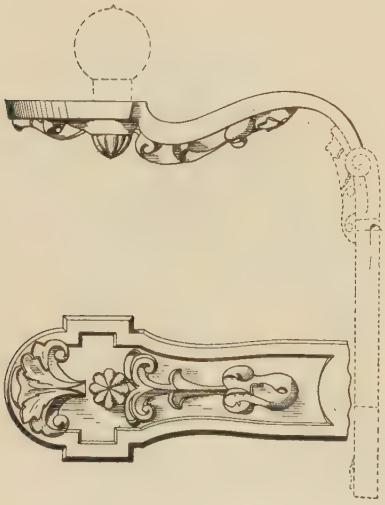
The ornamental design for a lighting fixture substantially as shown.

61,114. LIGHTING FIXTURE. MILTON B. ROLLER, San Francisco, Calif., assignor to Thomas Day Company, San Francisco, Calif., a Corporation of California. Filed Aug. 1, 1921. Serial No. 489,090. Term of patent 7 years.



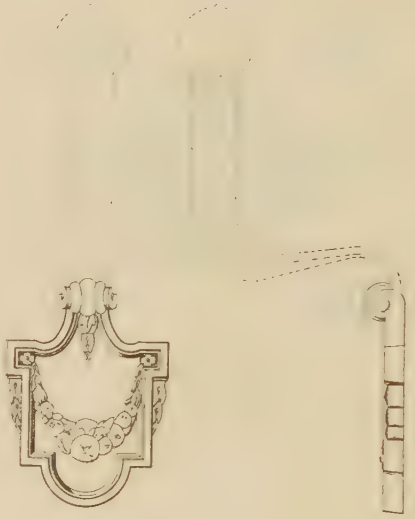
The ornamental design for a lighting fixture substantially as shown.

61,115. ARM FOR LIGHTING FIXTURES. MILTON B. ROLLER, San Francisco, Calif., assignor to Thomas Day Company, San Francisco, Calif., a Corporation of California. Filed Aug. 1, 1921. Serial No. 489,091. Term of patent 7 years.



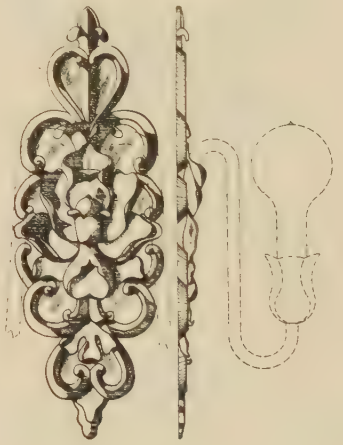
The ornamental design for an arm for lighting fixtures substantially as shown.

61,116. ARM FOR LIGHTING FIXTURES. MILTON B. ROLLER, San Francisco, Calif., assignor to Thomas Day Company, San Francisco, Calif., a Corporation of California. Filed Aug. 1, 1921. Serial No. 489,092. Term of patent 14 years.



The ornamental design for an arm for lighting fixtures substantially as shown.

61,117. ELECTRIC-LIGHTING BRACKET. MILTON B. ROLLER, San Francisco, Calif., assignor to Thomas Day Company, San Francisco, Calif., a Corporation of California. Filed Aug. 4, 1921. Serial No. 489,878. Term of patent 7 years.

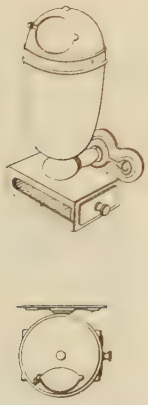


The ornamental design for an electric lighting bracket, substantially as shown.

61,118. LAMP. GEORGE J. ROMULUS, Lynn, Mass., assignor of one-half to Albert R. Myers, Brooklyn, N. Y. Filed May 12, 1921. Serial No. 469,055. Term of patent 14 years.

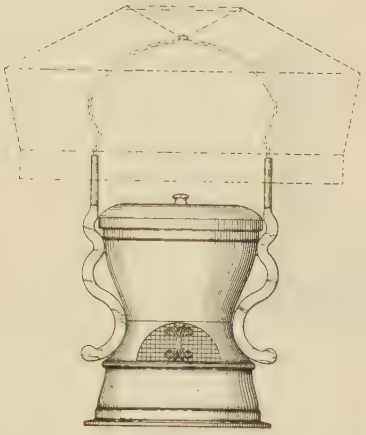
The ornamental design for a lamp, as shown.

61,119. COMBINED MATCH STAND AND ASH TRAY. ABRAHAM W. ROSEN, New York, N. Y. Filed May 28, 1921. Serial No. 473,405. Term of patent 7 years.



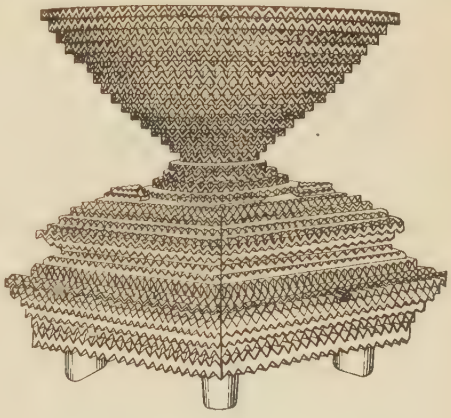
The ornamental design for a combined match stand and ash tray, as shown.

61,120. COMBINED LAMP STAND AND PHONOGRAPH. MIKEL RUSNAK, Chicago, Ill. Filed Aug. 5, 1921. Serial No. 490,136. Term of patent 7 years.



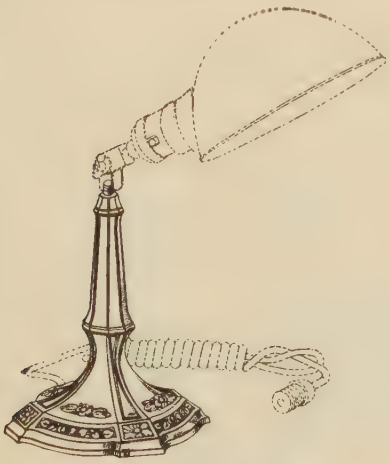
The ornamental design for a combined lamp-stand and phonograph as shown and described.

61,121. STAND. JOHN SANTA, Leadville, Colo. Filed Aug. 4, 1921. Serial No. 489,882. Term of patent 7 years.



The ornamenal design for a stand, as shown.

61,122. PORTABLE LAMP BASE. S. ROBERT SCHWARTZ and AUGUST BOSTROEM, New York, N. Y., assignors to Samuel Robert Schwartz, New York, N. Y. Filed Sept. 28, 1921. Serial No. 503,991. Term of patent 7 years.

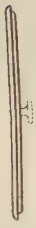


The ornamental design for a portable lamp base, as shown.

61,123. FINGER RING, BADGE, EMBLEM, PIN, OR SIMILAR ARTICLE. GEORGE E. STEINBRENNER, Irvington, N. J., assignor to Hanzl & Steinbrenner, Newark, N. J., a firm composed of William F. Hanzl and George E. Steinbrenner. Filed Jan. 28, 1922. Serial No. 412. Term of patent 14 years.

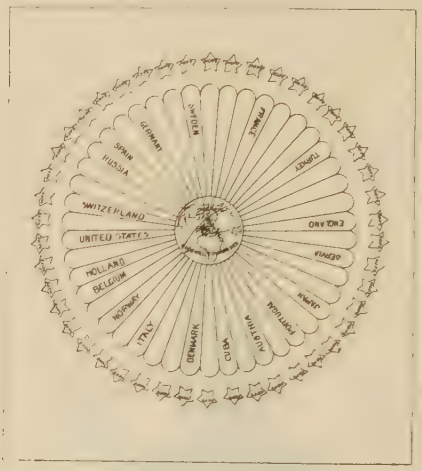
The ornamental design for a finger ring, badge, emblem, pin or similar article, as shown.

61,124. BADGE, BUTTON, OR ARTICLE OF SIMILAR NATURE. WILLIAM J. STEWART, Philadelphia, Pa. Filed Feb. 26, 1920. Serial No. 361,562. Term of patent 3½ years.



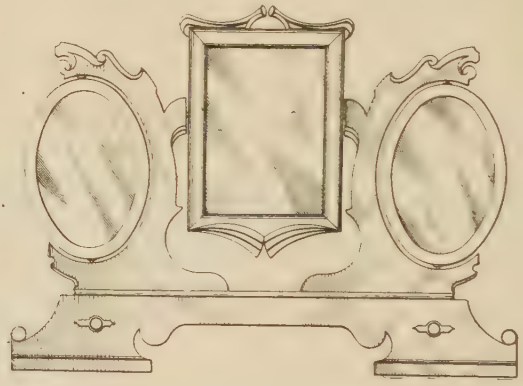
The ornamental design for a badge, button, or article of similar nature as shown.

61,125. PENNANT. ROBERT D. TURRENTINE, Clarksville, Tenn. Filed Apr. 29, 1921. Serial No. 465,543. Term of patent 7 years.



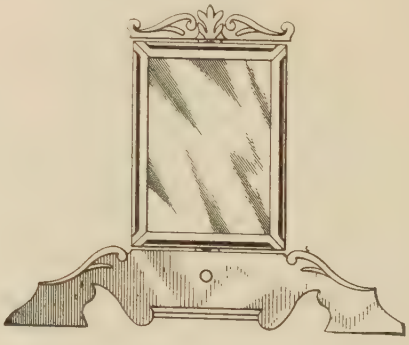
The ornamental design for a pennant, as shown.

61,126. PICTURE AND MIRROR FRAME. JOSEPH URBANEK, Chicago, Ill. Filed Apr. 6, 1922. Serial No. 1,560. Term of patent 14 years.



The ornamental design for a picture and mirror frame, as shown.

61.127. MIRROR AND PICTURE FRAME. JOSEPH URBANEK, Chicago, Ill. Filed Apr. 6, 1922. Serial No. 1,561. Term of patent 14 years.



The ornamental design for a mirror and picture frame, as shown.

61,128. SERVICE FLAG, PENNANT, OR SIMILAR ARTICLE. HARRY W. WAITE, Somerville, Mass. Filed Nov. 28, 1917. Serial No. 204,472. Term of patent 7 years.

The ornamental design for a service flag, pennant or similar article herein shown.

61,129. FINGER RING, FOB, SCARF PIN, OR SIMILAR ARTICLE OF MANUFACTURE. JOHN YAPPELLI and THOMAS YAPPELLI, Brooklyn, N. Y. Filed Mar. 31, 1921. Serial No. 457,529. Term of patent 3½ years.

The ornamental design for a finger ring, fob, scarfpin, or similar article of manufacture consisting of the design substantially as shown and described.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 20, 1922.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

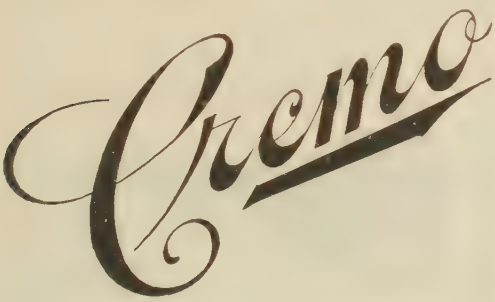
Ser. No. 114,578. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) ODEOLA CABINETS AND PHONOGRAFS COMPANY, New York, N. Y. Filed Dec. 9, 1918.

The hatching lines are for shading only.

Particular description of goods.—Sound-Reproducing Machines—Namely, Phonographs and Dictaphones.

Claims use since June 1, 1918.

Ser. No. 126,877. (CLASS 45. BEVERAGES, NONALCOHOLIC.) H. C. SCHRANCK CO., Milwaukee, Wis. Filed Jan. 6, 1920.



Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Containing Less Than One-Half of One Per Cent Alcohol, by Volume, Sold as a Soft Drink.

Claims use since Apr. 4, 1905.

Ser. No. 128,773. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) FILMUSIC COMPANY, Los Angeles, Calif. Filed Feb. 24, 1920.

POPULAROLL

Particular description of goods.—Perforated Music Rolls or Sheets for Use with Mechanical Player Instruments.

Claims use since Jan. 8, 1917.

Ser. No. 131,214. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) ALBERT L. HUNT, Peoria, Ill. Filed Apr. 16, 1920.

HUNT

FOR

TIRES

No claim is made for the words "For Tires" apart from the mark shown on the drawing.

Particular description of goods.—Vehicle Tires, Pneumatic and Solid, of Rubber, Rubber and Fabric, Leather, Rubber and Leather, Rubber, Fabric, and Leather; Inner Tubes of Rubber, Rubber and Fabric; Blow-Out Boots and Patches of Rubber, Fabric, Leather, or a Combination of These Materials; Inner-Tube Patches of Rubber, Fabric, Leather, or a Combination of These Materials; Tire Covers of Rubber, Fabric, Leather, or a Combination of These Materials; Tire Reliners of Rubber, Fabric, Leather, or a Combination of These Materials.

Claims use since July 1, 1919.

Ser. No. 132,453. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CARL J. SCHUSTER, Cleveland, Ohio. Filed May 14, 1920.

TAXI-COLA

No claim is made to the word "Cola."

Particular description of goods.—Nonalcoholic, Maltless Beverage Sold as a Soft Drink and Sirup for Making the Same.

Claims use since May 3, 1920.

Ser. No. 133,181. (CLASS 37. PAPER AND STATIONERY.) BROWN COMPANY, Portland, Me. Filed June 2, 1920.

Particular description of goods.—Paper Products, and Particularly Kraft Paper, Wrapping Paper, Bond or Other Writing Paper, Print Paper, Paper Toweling, Crepe Paper, and Paper for Toilet Purposes.

Claims use since 1900.

Ser. No. 140,963. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PAINLESS PARKER DENTIST, San Francisco, Calif. Filed Dec. 11, 1920.

PAINLESS PARKER'S

Picture forming part of trade-mark is a portrait of Dr. Painless Parker.

Particular description of goods.—Mouth Washes, Pyorrhea Preparations, and Tooth Paste.

Claims use since 1915.

Ser. No. 141,532. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) KARL H. ROGERS, Philadelphia, Pa. Filed Dec. 27, 1920.

BENDO

"Bendo."

Particular description of goods.—Pliable Bendable Doll.

Claims use since Jan. 8, 1920.

Ser. No. 142,189. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) GEBR. ZUPPINGER, Meilen, Switzerland. Filed Jan. 12, 1921.

CHAMPOMMES

Particular description of goods.—Nonintoxicating, Maltless, Noncereal Beverages Containing Less Than One-Half of One Per Cent Alcohol, by Volume, Sold as a Soft Drink.

Claims use since July 19, 1920.

Ser. No. 143,367. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE SNAPLOK COMPANY, Cleveland, Ohio. Filed Feb. 9, 1921.

SNAPLOK

Particular description of goods.—Window-Light Frames for Vehicle Tops.

Claims use since about July, 1919.

Ser. No. 144,497. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) T. N. BENEDICT MFG. CO., East Syracuse, N. Y. Filed Mar. 9, 1921.

INDESTRUCTO

Trade-mark consists of the word "Indestructo."

Particular description of goods.—Silver-Plated Table Ware and Articles Plated with Precious Metal, as Follows: Trays, Cups, Pitchers, Small Pots, Bowls, Spoons, Finger Bowls, and Also Silver-Plated Cups for Soda Fountains.

Claims use since on or about Jan. 1, 1919.

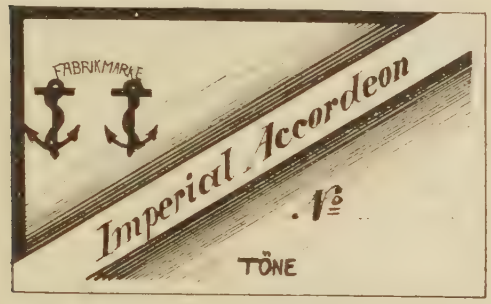
Ser. No. 146,790. (CLASS 17. TOBACCO PRODUCTS.) HORMISDAS MORRIER, doing business as the Bible Land Cigar Company, Portsmouth, N. H. Filed Apr. 27, 1921.

No claim is made to the word "Cigar" appearing on drawing.

Particular description of goods.—Manufactured Cigars.

Claims use since May 15, 1918.

Ser. No. 147,168. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) MATTH HOHNER, ACTIEN-GESELLSCHAFT, Trossingen, Germany. Filed May 3, 1921.



The applicant disclaims exclusive right to the words "Accordeon," "Fabrikmarke," "No.," and "Tone" apart from mark as shown.

Particular description of goods.—Accordions.

Claims use since May 25, 1882.

Ser. No. 148,043. (CLASS 5. ADHESIVES.) UNITED SHOE MACHINERY CORPORATION, Paterson, N. J., and Boston, Mass. Filed May 21, 1921.

UNITED

Trade-mark consists of the word "United."

Particular description of goods.—Cement Such as is Used in the Manufacture and Repairing of Boots and Shoes.

Claims use since 1910.

Ser. No. 148,192. (CLASS 39. CLOTHING.) APPAREL PRODUCTS CO. INC., New York, N. Y. Filed May 25, 1921.

APCO
GARMENT

The word "Garment" is disclaimed from the drawing of trade-mark.

Particular description of goods.—Ladies' Coats and Suits and Men's Coats and Suits, Women's Dresses, Men's Trousers, Men's Work Shirts, and Boys' Coats and Suits.

Claims use since Apr. 1, 1921.

Ser. No. 148,222. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) GIBSON MUSICAL STRING CO., Belleville, N. J. Filed May 25, 1921.

GOLD MEDAL

Particular description of goods.—Strings for Violins, Violas, Violincellos, Double Basses, Tango Banjos, Harps, Guitars, Banjos, Mandolins, Mandolas, Zithers, Autoharps, Mandocellos, and Bandurrias.

Claims use since Apr. 1, 1921.

Ser. No. 148,709. (CLASS 12. CONSTRUCTION MATERIALS.) CENTRAL WEST COAL & LUMBER COMPANY, Columbus, Ohio, and Seattle, Wash. Filed June 6, 1921.

WASHINGTON
XXXXX

The word "Washington" is disclaimed apart from the other features of the mark shown on drawing.

Particular description of goods.—Shingles.

Claims use since Apr. 1, 1921.

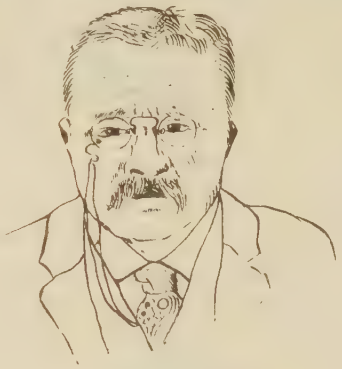
Ser. No. 150,757. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOE LOWE CO. INC., New York, N. Y. Filed July 21, 1921.

KWICK LITE

Particular description of goods.—Whipping Powders or Fillers Made of Dried Egg Whites and Gelatine or the Like and Used by Bakers.

Claims use since Jan. 1, 1918.

Ser. No. 150,778. (CLASS 27. HOROLOGICAL INSTRUMENTS.) STEIN & ELLBOGEN COMPANY, Chicago, Ill. Filed July 21, 1921.



Trade-mark consists of the portrait of Col. Roosevelt.

Particular description of goods.—Watches.

Claims use since Apr. 18, 1921.

Ser. No. 151,147. (CLASS 37. PAPER AND STATIONERY.) CENTRAL PAPER COMPANY, Menasha, Wis. Filed July 30, 1921.

Security

Particular description of goods.—Gummed Paper.

Claims use since July, 1918.

Ser. No. 151,337. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) WILLIAM WALLACE STILES, Gretna, La. Filed Aug. 3, 1921.

WHITE OWL

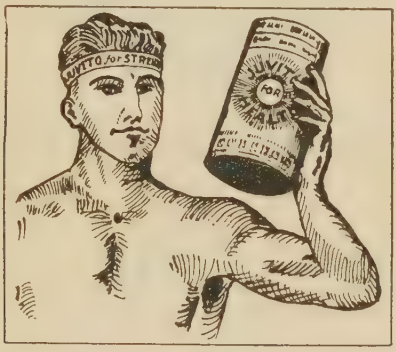
TUBE PATCH

No claim is made to the words "Tube Patch" apart from the mark shown in drawing.

Particular description of goods.—Sheet-Rubber Patches Known as White Owl.

Claims use since June 1, 1921.

Ser. No. 151,700. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BIELEK MANUFACTURING COMPANY, Pittsburgh, Pa. Filed Aug. 12, 1921.



The words "For Health" and "For Strength" are disclaimed.

Particular description of goods.—Medicines.

Claims use since June 11, 1919.

Ser. No. 151,746. (CLASS 37. PAPER AND STATIONERY.) BOORUM & PEASE COMPANY, New York, N. Y. Filed Aug. 13, 1921.

No claim being made to the exclusive use of the words "Blank Books and Loose Leaf Devices" apart from the mark as shown in the drawing.

Particular description of goods.—Blank Books of All Types, Pads and Tablets, Loose-Leaf Devices of All Types and Designs—viz, Ledger Outfits Comprising Ledger Binders; Leather Tab Index and Ruled Ledger Sheets, Spring-Back Binders, Transfer-Post Binders, Sectional-Post Binders, Steel-Back Binders, Transfer-Post Lock Binders, Sectional-Post Lock Binders, Aluminum Sheet Binders, Ring Binders, Sheet Holders, String Binders, Prong Binders, Columnar Loose Ruled Sheets, Loose-Leaf Record and Minute-Book Sheets, Loose Leaf Ringed Memorandum-Book Covers, Loose-Leaf Perforated Memorandum-Book Sheets, Loose-Leaf Perforated Memorandum-Book Sheets Ruled, Ringed Loose-Leaf Price-Book Covers, Perforated Price-Book Sheets and Parts Thereof, Punch Presses, Hand Punches and Eyelets, and Inventory Outfits Consisting of a Post Binder, Clip, and Inventory Sheets.

Claims use since at least 1880.

Ser. No. 152,685. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) MARK MANUFACTURING COMPANY, Chicago, Ill. Filed Sept. 7, 1921.

MARK

Particular description of goods.—Cup Leathers.

Claims use since July 17, 1919.

Ser. No. 152,804. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NASH COFFEE COMPANY, Minneapolis, Minn. Filed Sept. 10, 1921.

GOLDEN GIFT

Particular description of goods.—Coffee.

Claims use since July, 1921.

Ser. No. 152,982. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) RAY BENGERT, Kansas City, Mo. Filed Sept. 16, 1921.

Particular description of goods.—Jewelry for Personal Wear, Not Including Watches.

Claims use since Sept. 1, 1917.

Ser. No. 153,316. (CLASS 37. PAPER AND STATIONERY.) J. S. STAEDTLER, Nuremberg, Germany. Filed Sept. 24, 1921.

THE CHIEF'S PENCIL

No claim is made to the word "Pencil" on the drawing.

Particular description of goods.—Lead Pencils, Ink Pencils, Slate Pencils, Copying Pencils, and Artists' Pencils, and Chalk, Lead, and Ink Cores for Pencils.

Claims use since Dec. 8, 1902.

Ser. No. 153,873. (CLASS 37. PAPER AND STATIONERY.) LAWRENCE KIBLER DESMOND, doing business as L. K. Desmond, Corry, Pa. Filed Oct. 8, 1921.

PENPOST

Particular description of goods.—Support for Fountain Pens.

Claims use since Mar. 1, 1920.

Ser. No. 154,025. (CLASS 39. CLOTHING.) THE H & W COMPANY, Newark, N. J. Filed Oct. 12, 1921.

"H. & W."

Particular description of goods.—Corsets, Corset Waists, Brassières, Bandeaux, and Underwaists for Ladies, Misses, and Children.

Claims use since July, 1889.

Ser. No. 154,364. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HOLMAC, INC., New York, N. Y. Filed Oct. 20, 1921.

BLUE DART

Particular description of goods.—Golf Balls.

Claims use since Oct. 7, 1921.

Ser. No. 154,757. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE POGO COMPANY, New York, N. Y. Filed Oct. 29, 1921.

"POGO"

Particular description of goods.—Jumping Stick.

Claims use since June 28, 1921.

Ser. No. 155,111. (CLASS 38. PRINTS AND PUBLICATIONS.) NATIONAL MARINE ENGINEERS' BENEFICIAL ASSOCIATION, Washington, D. C. Filed Nov. 7, 1921.

THE AMERICAN MARINE ENGINEER

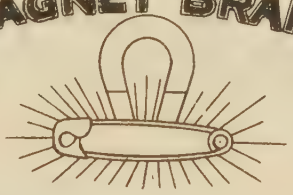
Trade-mark "The American Marine Engineer."

Particular description of goods.—Official Journal of This Organization.

Claims use since January, 1906.

Ser. No. 155,291. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WALKER WEBBING CO., Providence, R. I. Filed Nov. 10, 1921.

MAGNET BRAND



No claim is made to the word "Brand" and the representation of a safety pin apart from the mark shown.

Particular description of goods.—Shoe Lacings, Dress Belting, Underwear Lacings, Blouse Lacings, Galloons, Braids, Webbings, and Tapes, All of Which are Made of Cotton, Linen, Silk, or Worsted; Snap Fasteners, Hairpins, Not Made of Precious Metals, Safety Pins, Hooks and Eyes, and Buttons Not Made of Precious Metals.

Claims use since January, 1921.

Ser. No. 156,272. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) FRONTIER BRONZE CORPORATION, Niagara Falls, N. Y. Filed Dec. 5, 1921.

Particular description of goods.—Nonferrous Metal Castings.

Claims use since Nov. 8, 1921.

Ser. No. 156,440. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CENTURY CORK CO., New York, N. Y. Filed Dec. 8, 1921.

Leader

Particular description of goods.—Corks for Stoppering Bottles and the Like.
Claims use since June 1, 1908.

Ser. No. 156,527. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HARDINGE COMPANY, New York, N. Y. Filed Dec. 10, 1921.

TITANITE

Particular description of goods.—Iron and Steel Used for Lining Plates for Ball and Pebble Mills.
Claims use since Mar. 1, 1916.

Ser. No. 156,566. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VAL. BLATZ JR. CANDY CO., Milwaukee, Wis. Filed Dec. 12, 1921.

Cherryfairy

Particular description of goods.—Candy.
Claims use since Aug. 1, 1920.

Ser. No. 156,968. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) METAL AND ALLOY SPECIALTIES COMPANY, INC., Buffalo, N. Y. Filed Dec. 20, 1921.

RADITE

Particular description of goods.—Nonrusting and Corrosion-Resisting Alloy and Castings Made Therefrom.
Claims use since June 16, 1921.

Ser. No. 156,984. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Dec. 21, 1921.

RIFFAIN

Particular description of goods.—Knitted, Netted, and Textile Fabrics.
Claims use since on or about June 15, 1921.

Ser. No. 156,985. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Dec. 21, 1921.

ATLANTIDE

Particular description of goods.—Knitted, Netted, and Textile Fabrics.
Claims use since on or about June 15, 1921.

Ser. No. 157,418. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) FRANK FOUNDRIES CORPORATION, Davenport, Iowa. Filed Jan. 3, 1922.

FRANKASTINGS

Particular description of goods.—Gray-Iron Castings, Malleable Castings, and Metallic Castings of All Kinds, Both in the Rough and Finished.
Claims use since Jan. 21, 1921.

Ser. No. 157,454. (CLASS 38. PRINTS AND PUBLICATIONS.) STANDARD SCHOOL EQUIPMENT CO., Louisville, Ky. Filed Jan. 3, 1922.

JONES
The Standard Line
LOUISVILLE
Kentucky

No exclusive claim is made to words "The Standard Line" or "Louisville, Kentucky," except as associated with the other features of the mark. The drawing is lined for shading.

Particular description of goods.—School Furniture and Equipment, Including Movable Chair Desks, Pupils' Desks, Teachers' Desks, Bookcases, Map Cases, Typewriter Tables, Kindergarten Tables, Dictionary Holders, Weight and Measure Cabinets, Domestic-Science Tables, and Chairs and Benches for Schoolroom Use.
Claims use since July 30, 1921.

Ser. No. 157,539. (CLASS 39. CLOTHING.) CALEB SMITH, doing business as Seneca Knitting Company, Seneca Falls, N. Y. Filed Jan. 5, 1922.

Particular description of goods.—Hosiery.
Claims use since Sept. 23, 1921.

Ser. No. 157,590. (CLASS 39. CLOTHING.) STAR SPORTING GOODS CO., New York, N. Y. Filed Jan. 6, 1922.

Neptune

Particular description of goods.—Gunning Coats.
Claims use since 1901.

Ser. No. 157,604. (CLASS 39. CLOTHING.) JOSEPH ELSTEIN & SONS, New York, N. Y. Filed Jan. 7, 1922.

WEATHERWISE

Particular description of goods.—Men's Topcoats.
Claims use since Dec. 27, 1921.

Ser. No. 157,608. (CLASS 39. CLOTHING.) FELDMAN & WEINMAN, Baltimore, Md. Filed Jan. 7, 1922.

SAMMY

Particular description of goods.—Work Shirts.
Claims use since December, 1921.

Ser. No. 157,620. (CLASS 38. PRINTS AND PUBLICATIONS.) JOHN MARTIN'S HOUSE, INC., New York, N. Y. Filed Jan. 7, 1922.

JOHN MARTIN'S BOOK The Child's Magazine

Particular description of goods.—Magazines Published Monthly.
Claims use since August, 1916.

Ser. No. 157,644. (CLASS 39. CLOTHING.) JOSEPH WALL, doing business as The Jowall Cap Works, Boston, Mass. Filed Jan. 7, 1922.

"JOWALL"

Particular description of goods.—Men's and Boys' Hats and Caps.
Claims use since Jan. 1, 1913.

Ser. No. 157,652. (CLASS 39. CLOTHING.) THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y. Filed Jan. 9, 1922.

Boss

SHUCKY

Particular description of goods.—Fabric Gloves and Mittens.
Claims use since Dec. 5, 1921.

Ser. No. 157,653. (CLASS 39. CLOTHING.) THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y. Filed Jan. 9, 1922.

BOSS

TU-TUM

Particular description of goods.—Fabric Gloves and Mittens.
Claims use since Dec. 6, 1921.

Ser. No. 157,679. (CLASS 38. PRINTS AND PUBLICATIONS.) NEW YORK TRIBUNE, INC., New York, N. Y. Filed Jan. 9, 1922.

The Tower

Particular description of goods.—Newspaper Column.
Claims use since Nov. 11, 1921.

Ser. No. 157,826. (CLASS 38. PRINTS AND PUBLICATIONS.) VICTOR H. BROWNSCOMBE, doing business as Bankers Service Company of Pennsylvania, Pittsburgh, Pa. Filed Jan. 12, 1922.

DIRECTORY OF DIRECTORS IN THE PITTSBURGH DISTRICT

Particular description of goods.—Annual Publication.
Claims use since 1913.

Ser. No. 157,975. (CLASS 38. PRINTS AND PUBLICATIONS.) WEBB PUBLISHING COMPANY, St. Paul, Minn. Filed Jan. 14, 1922.

THE FARMER

Particular description of goods.—Periodicals.
Claims use since July 8, 1901.

Ser. No. 157,976. (CLASS 38. PRINTS AND PUBLICATIONS.) WEBB PUBLISHING COMPANY, St. Paul, Minn. Filed Jan. 14, 1922.

THE FARMER'S WIFE

Particular description of goods.—Monthly Periodicals.
Claims use since July 1, 1905.

Ser. No. 158,153. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EARLE I. RUNNER, doing business as The Clayton Pharmacal Co., Wheeling, W. Va. Filed Jan. 19, 1922.

TRI-VITA

Particular description of goods.—Vitamine Compound Combining Fat-Soluble "A" and Water-Soluble "B" and "C" Vitamines Used in the Treatment of Anæmic, Debilitated, and Weakened Conditions of the Human System.
Claims use since Nov. 4, 1921

Ser. No. 158,186. (CLASS 38. PRINTS AND PUBLICATIONS.) ROBERT JOHN, New York, N. Y. Filed Jan. 20, 1922.

HYDROGRAVURE

Particular description of goods.—Prints, Pictures, and Illustrations.
Claims use since Dec. 23, 1921.

Ser. No. 158,208. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE KIRKHART ELECTRICAL CO., Elkhart, Kans. Filed Jan 14, 1922.

DREAM

Particular description of goods.—Electrolytes.
Claims use since Jan. 7, 1921.

Ser. No. 158,230. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) HERMAN GABBE & BRO., INC., New York, N. Y. Filed Jan. 21, 1922.

GABBE

Particular description of goods.—Furs and Skins in the Piece.
Claims use since January, 1919.

Ser. No. 158,401. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ROSOFF SAND & GRAVEL CORP., New York, N. Y. Filed Jan. 24, 1922.

Particular description of goods.—Washed Sand and Gravel Proportioned to Suit Builders and Users.
Claims use since Sept. 1, 1921.

Ser. No. 158,461. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE WESTERN DENTAL MFG. COMPANY LIMITED, Bristol, England. Filed Jan. 25, 1922.

SOTOL

Particular description of goods.—Preparations for the Teeth and for the Mouth—viz, Antiseptic Mouth-Wash Tablets, Effervescent Mouth-Wash Tablets, Tooth Powder, and Dental Cream.
Claims use since Dec. 5, 1917.

Ser. No. 158,497. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARY F. WILKINS, doing business as Med-O-Lark Groves, Minneapolis, Minn. Filed Jan. 26. 1922.

MED-O-LARK

Particular description of goods.—Citrus Fruits in Their Natural State.
Claims use since Jan. 5, 1922.

Ser. No. 158,586. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) UNITED STORES SUPPLY COMPANY, Minneapolis, Minn. Filed Jan. 28, 1922.

Lavo-Kleen

Particular description of goods.—Powder for Cleaning Closet Bowls.
Claims use since Apr. 30, 1921.

Ser. No. 158,617. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ITALIAN SUPPLY CO., Lock Haven, Pa. Filed Jan. 30, 1922.

SONS OF ITALY

Particular description of goods.—Olive Oil, Tomato Sauce, and Macaroni.
Claims use since Sept. 1, 1921.

Ser. No. 158,638. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NORTHWESTERN YEAST COMPANY, Chicago, Ill. Filed Jan. 30, 1922.

YEAST FOAM

No claim is made for the word "Yeast" apart from rest of mark.
Particular description of goods.—Medicinal Vitamine Products.
Claims use since Jan. 25, 1922.

Ser. No. 158,695. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) H. R. COLWELL, Washington, D. C. Filed Jan. 31, 1922.

OH BOY

Particular description of goods.—Toy Animals, Toy Balloons, and Barking and Sounding Toys.
Claims use since Sept. 3, 1921.

Ser. No. 158,706. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) ELECTRO METALLURGICAL COMPANY, Glen Ferris, W. Va., and Niagara Falls, N. Y. Filed Feb. 1, 1922.

ELECTROMET

Particular description of goods.—Ferrous and Non-ferrous Metals and Alloys.
Claims use since July 9, 1915.

Ser. No. 158,707. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) FLORENCE MANUFACTURING COMPANY, Northampton, Mass. Filed Feb. 1, 1922. Under ten-year proviso.

FLORENCE

Particular description of goods.—Tooth, Hair, Nail, Flesh, and Lather Brushes.
Claims use since 1866.

Ser. No. 158,713. (CLASS 32. FURNITURE AND UPHOLSTERY.) JOHN HOEY & CO., San Francisco, Calif. Filed Feb. 1, 1922.

FELTEX

Particular description of goods.—Mattresses.
Claims use since Dec. 21, 1921.

Ser. No. 158,814. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE APEX COAL COMPANY, Fort Smith, Ark. Filed Feb. 3, 1922.

APEX

Particular description of goods.—Coal.
Claims use since Dec. 1, 1921.

Ser. No. 158,940. (CLASS 38. PRINTS AND PUBLICATIONS.) ROY S. MONGER, New York, N. Y. Filed Feb. 6, 1922.

HERE AND THERE

Particular description of goods.—Monthly Periodical.
Claims use since on or about Jan. 26, 1922.

Ser. No. 159,057. (CLASS 38. PRINTS AND PUBLICATIONS.) CHARLES SCRIBNER'S SONS, New York, N. Y. Filed Feb. 8, 1922.

The T SQUARE

Particular description of goods.—Monthly Publications.
Claims use since April, 1921.

Ser. No. 159,207. (CLASS 38. PRINTS AND PUBLICATIONS.) ROBERT S. KENNEDY, New York, N. Y. Filed Feb. 11, 1922.

Automobile Replacement Parts Directory

Particular description of goods.—Trade Journal Published Quarterly.
Claims use since on or about Feb. 4, 1922.

Ser. No. 159,432. (CLASS 38. PRINTS AND PUBLICATIONS.) STAR COMPANY, New York, N. Y. Filed Feb. 16, 1922.

AMERICAN MARKET MAN

Particular description of goods.—Newspaper Section.
Claims use since Jan. 21, 1922.

Ser. No. 159,440. (CLASS 12. CONSTRUCTION MATERIALS.) UNITED STATES GYPSUM COMPANY, Chicago, Ill. Filed Feb. 16, 1922. Under ten-year proviso.

CHALLENGE

Particular description of goods.—Calcined Gypsum, Plaster of Paris, Wall Plaster, and Gauging Plaster.
Claims use since 1887.

Ser. No. 159,441. (CLASS 12. CONSTRUCTION MATERIALS.) UNITED STATES GYPSUM COMPANY, Chicago, Ill. Filed Feb. 16, 1922.

SHEETROCK

Particular description of goods.—Calcined Gypsum, Plaster of Paris, Wall Plaster, and Finishing Plaster.
Claims use since Jan. 1, 1921.

Ser. No. 159,444. (CLASS 12. CONSTRUCTION MATERIALS.) UNITED STATES GYPSUM COMPANY, Chicago, Ill. Filed Feb. 16, 1922.

BIG 4 FOUR

Particular description of goods.—Calcined Gypsum, Plaster of Paris, Wall Plaster, Gauging Plaster, and Cement Plaster.
Claims use since 1901.

Ser. No. 159,481. (CLASS 38. PRINTS AND PUBLICATIONS.) RAMP BUILDINGS CORPORATION, New York, N. Y. Filed Feb. 17, 1922.

AUTO-APARTMENTS

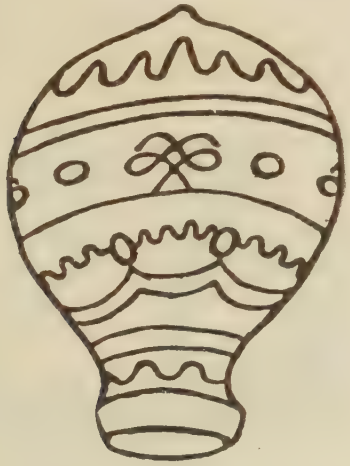
Particular description of goods.—Magazines Published Monthly.
Claims use since Jan. 20, 1922.

Ser. No. 159,632. (CLASS 12. CONSTRUCTION MATERIALS.) UNITED STATES GYPSUM COMPANY, Chicago, Ill. Filed Feb. 20, 1922. Under ten-year proviso.

IVORY

Particular description of goods.—Calcined Gypsum, Plaster of Paris, Wall Plaster, Cement Plaster, Finishing Plaster, and Keene's Cement.
Claims use since 1887.

Ser. No. 159,787. (CLASS 37. PAPER AND STATIONERY.) CAMILLE H. BOULIN, doing business as Canson & Montgolfier, New York, N. Y. Filed Feb. 25, 1922.



Trade-mark consists of a balloon.
Particular description of goods.—Handmade Paper.
Claims use since June 1, 1919.

Ser. No. 159,792. (CLASS 38. PRINTS AND PUBLICATIONS.) WILFORD H. FAWCETT, Robbinsdale, Minn. Filed Feb. 25, 1922.

Capt. Billy's Whiz Bang

Particular description of goods.—Monthly Publication.
Claims use since October, 1919.

Ser. No. 159,842. (CLASS 38. PRINTS AND PUBLICATIONS.) THE BUNTING PUBLICATIONS, INC., Waukegan, Ill. Filed Feb. 27, 1922.

Druggists Side Lines

Particular description of goods.—Monthly Publication.
Claims use since October, 1921.

Ser. No. 159,843. (CLASS 38. PRINTS AND PUBLICATIONS.) THE BUNTING PUBLICATIONS, INC., Waukegan, Ill. Filed Feb. 27, 1922.

Wholesale Merchandise

Particular description of goods.—Monthly Publication.
Claims use since December, 1921.

Ser. No. 159,844. (CLASS 38. PRINTS AND PUBLICATIONS.) THE BUNTING PUBLICATIONS, INC., Waukegan, Ill. Filed Feb. 27, 1922.

The WHOLESALE BUYERS' GUIDE

Particular description of goods.—Monthly Publication.
Claims use since January, 1916.

Ser. No. 159,850. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CALIFORNIA CENTRAL CREAMERIES, San Francisco, Calif. Filed Feb. 27, 1922.

Particular description of goods.—Product Used in Preparing Spraying Mixtures for Use on Fruit Trees.
Claims use since Sept. 25, 1921.

Ser. No. 159,859. (CLASS 38. PRINTS AND PUBLICATIONS.) ARTHUR A. EASTMAN, doing business as Eastman Advertising Service, South Bend, Ind. Filed Feb. 27, 1922.

BILL'S BULLETIN

Particular description of goods.—Monthly Trade Bulletin.
Claims use since Jan. 1, 1921.

Ser. No. 159,922. (CLASS 45. BEVERAGES, NONALCOHOLIC.) CHERRY BLOSSOM MFG. CO., Newton, Iowa. Filed Feb. 28, 1922.

Bloom

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Nov. 15, 1914.

Ser. No. 159,926. (CLASS 45. BEVERAGES, NONALCOHOLIC.) CHERRY BLOSSOM MFG. CO., Newton, Iowa. Filed Feb. 28, 1922.

Loganberry Bloom

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Nov. 15, 1914.

Ser. No. 159,927. (CLASS 45. BEVERAGES, NONALCOHOLIC.) CHERRY BLOSSOM MFG. CO., Newton, Iowa. Filed Feb. 28, 1922.

Cherry Bloom

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Nov. 15, 1914.

Ser. No. 159,928. (CLASS 45. BEVERAGES, NONALCOHOLIC.) CHERRY BLOSSOM MFG. CO., Newton, Iowa. Filed Feb. 28, 1922.

Plum Bloom

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Nov. 15, 1914.

Ser. No. 159,932. (CLASS 45. BEVERAGES, NONALCOHOLIC.) CHERRY BLOSSOM MFG. CO., Newton, Iowa. Filed Feb. 28, 1922.

Apricot Bloom

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Nov. 15, 1914.

Ser. No. 159,981. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MATHILDE ROCHON, Washington, D. C. Filed Feb. 28, 1922.

L'ORIENTALINE

Particular description of goods.—Hair Dyes.
Claims use since Feb. 1, 1902.

Ser. No. 160,042. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FRED D. AMMIDOWN, Boston, Mass. Filed Mar. 2, 1922.

No claim is made to the words "Hair Net, Adds Dignity and Charm," apart from mark shown in drawing. Representation of female figure is fanciful.
Particular description of goods.—Hair Nets.
Claims use since Feb. 18, 1921.

Ser. No. 160,068. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LARKIN CO. INC., Buffalo, N. Y. Filed Mar. 2, 1922.

EUDENTINE

Particular description of goods.—Antiseptic Solution and Mouth Wash.
Claims use since Feb. 13, 1922.

Ser. No. 160,070. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MISSION BEAD COMPANY, Los Angeles, Calif. Filed Mar. 2, 1922.

MISSION

Particular description of goods.—Cleaning Compound for Removing Oil, Paint, Grease, Dirt, and Stains on Clothing and for Cleaning Panama Hats and Leather Goods.
Claims use since Jan. 1, 1921.

Ser. No. 160,072. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MINUS PHARMACAL CO., St. Louis, Mo. Filed Mar. 2, 1922.

Minus

Particular description of goods.—Liquid Medicinal Preparation for the Reduction of Superfluous Flesh.
Claims use since Feb. 20, 1922.

Ser. No. 160,082. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PLOUGH CHEMICAL COMPANY, Memphis, Tenn. Filed Mar. 2, 1922.

MON SECRET

Particular description of goods.—Toilet Preparation—Namely, a Deodorant.
Claims use since October, 1921.

Ser. No. 160,119. (CLASS 38. PRINTS AND PUBLICATIONS.) E. P. DUTTON & COMPANY, New York, N. Y. Filed Mar. 3, 1922.

EVERYMAN'S LIBRARY

Particular description of goods.—Printed Books Published in Series.
Claims use since Mar. 1, 1906.

Ser. No. 160,250. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES PUPLEY, New York, N. Y. Filed Mar. 6, 1922.

James'

Particular description of goods.—Preparation for Promoting the Growth of Hair.
Claims use since Jan. 1, 1922.

Ser. No. 160,263. (CLASS 38. PRINTS AND PUBLICATIONS.) SHEA SMITH & CO., Chicago, Ill. Filed Mar. 6, 1922.

SOS

Particular description of goods.—Publications Issued Monthly.
Claims use since July, 1919.

Ser. No. 160,299. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa. Filed Mar. 7, 1922.

Coppercarb

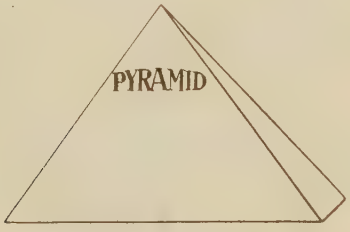
Particular description of goods.—Fungicide.
Claims use since Feb. 3, 1922.

Ser. No. 160,307. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) G. D. SEARLE AND COMPANY, Chicago, Ill. Filed Mar. 7, 1922.

SOL-IODI-GEN

Particular description of goods.—Antiseptic Pharmaceutical Preparations.
Claims use since Feb. 2, 1921.

Ser. No. 160,354. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STEPHEN KOVAC, New Rochelle, N. Y. Filed Mar. 8, 1922.



Particular description of goods.—Hair Tonics.
Claims use since Feb. 23, 1922.

Ser. No. 160,451. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WITCOMBE MCGEACHIN & CO., New York, N. Y. Filed Mar. 9, 1922.

WITCHIN

Particular description of goods.—Cotton, Cotton and Silk, and Cotton and Artificial-Silk Fabrics in the Piece and Made-Up Draperies, Casements, Curtains, and Wall and Furniture Coverings.
Claims use since July, 1921.

Ser. No. 160,503. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE PHILADELPHIA WOOL SCOURING AND CARBONIZING COMPANY, Philadelphia, Pa. Filed Mar. 10, 1912.

No claim being made to "Philadelphia, Penna." apart from the mark shown.
Particular description of goods.—Wool Which Has Been Scoured, Carbonized, or Otherwise Processed.
Claims use since Jan. 3, 1922.

Ser. No. 160,532. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BURTON BROS. & CO., New York, N. Y. Filed Mar. 11, 1922.

POGO CLOTH

Trade-mark consists of the words "Pogo Cloth," no claim being made to the exclusive use of the word "Cloth" apart from the mark as shown.
Particular description of goods.—Cotton Piece Goods.
Claims use since July, 1921.

Ser. No. 160,569. (CLASS 31. FILTERS AND REFRIGERATORS.) UEHLING INSTRUMENT COMPANY, Paterson, N. J., and New York, N. Y. Filed Mar. 11, 1922.

PYRO-PORUS

Particular description of goods.—Gas Filters.
Claims use since Jan. 19, 1922.

Ser. No. 160,657. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) COHN HALL MARX CO., New York, N. Y. Filed Mar. 14, 1922.

SUPERTEX

Trade-mark consists of the word "Supertex."
Particular description of goods.—Cotton Piece Goods.
Claims use since Dec. 15, 1921.

Ser. No. 160,658. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) COHN HALL MARX CO., New York, N. Y. Filed Mar. 14, 1922.

PONGETEX

Trade-mark "Pongetex."
Particular description of goods.—Cotton Piece Goods.
Claims use since Dec. 15, 1921.

Ser. No. 160,732. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) J. D. WALKER COAL COMPANY, Brisbin, Pa. Filed Mar. 15, 1922.

Particular description of goods.—Coal.
Claims use since Dec. 1. 1921.

Ser. No. 160,849. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE AMERTEX MILLS, INC., Bridgeport, Conn., and New York, N. Y. Filed Mar. 18, 1922.

Particular description of goods.—Pile Fabrics in the Piece.
Claims use since Oct. 31, 1921.

Ser. No. 160,902. (CLASS 38. PRINTS AND PUBLICATIONS.) READERS' PUBLISHING CORPORATION, New York, N. Y. Filed Mar. 18, 1922.

Trade-mark "The Round Up."
Particular description of goods.—Monthly Magazine.
Claims use since Mar. 8, 1922.

Ser. No. 160,931. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) DALLAS ICE FACTORY, Dallas, Tex. Filed Mar. 20. 1922.

KLERKOLD

Particular description of goods.—Ice.
Claims use since about July, 1919.

Ser. No. 160,958. (CLASS 38. PRINTS AND PUBLICATIONS.) JAMES F. NEWCOMB & CO. INC., New York, N. Y. Filed Mar. 20, 1922.

Direct Reflections

Particular description of goods.—Monthly Publication.
Claims use since Nov. 1, 1921.

Ser. No. 161,012. (CLASS 38. PRINTS AND PUBLICATIONS.) POPULAR RADIO, INC., New York, N. Y. Filed Mar. 21, 1922.

Popular Radio

Trade-mark consists of words "Popular Radio."
Particular description of goods.—Monthly Publication.
Claims use since Mar. 15, 1922.

Ser. No. 161,025. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GLIDDEN COMPANY, Cleveland, Ohio. Filed Mar. 22, 1922.

TOXOL

Particular description of goods.—Insecticide.
Claims use since Mar. 16, 1922.

Ser. No. 161,131. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) GEORGE O. JENKINS COMPANY, Bridgewater, Mass. Filed Mar. 23, 1922.

No claim is made to the words "Heeling Board."
Particular description of goods.—Leatherboard and Counterboard.
Claims use since November, 1917.

Ser. No. 161,239. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Mar. 25, 1922.

LUTETIA

Particular description of goods.—Broad Silk Piece Goods.
Claims use since on or about Sept. 15, 1921.

Ser. No. 161,254. (CLASS 38. PRINTS AND PUBLICATIONS.) THE HOUSTON PUBLISHING COMPANY, New York, N. Y. Filed Mar. 25, 1922.

OUR WORLD

Particular description of goods.—Monthly Periodical.
Claims use since Mar. 21, 1922.

Ser. No. 161,282. (CLASS 31. FILTERS AND REFRIGERATORS.) SEED FILTER & MANUFACTURING CO. INC., New York, N. Y. Filed Mar. 25, 1922.

EUREKA

Particular description of goods.—Antisplash Water Filters—Namely, a Small Screw-On Strainer for Faucets.
Claims use since 1906.

Ser. No. 161,355. (CLASS 31. FILTERS AND REFRIGERATORS.) EDWARD J. DEGUENTHER, Milwaukee, Wis. Filed Mar. 28, 1922.

ESKIMO PIE

Particular description of goods.—Refrigerators.
Claims use since Mar. 17, 1922.

Ser. No. 161,421. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Mar. 29, 1922.

Kornella

Particular description of goods.—Woolen Piece Goods.
Claims use since Feb. 20, 1922.

Ser. No. 161,422. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Mar. 29, 1922.

Montera

Particular description of goods.—Woolen Piece Goods.
Claims use since Feb. 2, 1922.

Ser. No. 161,423. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Mar. 29, 1922.

Cyrena

Particular description of goods.—Woolen Piece Goods.
Claims use since Feb. 2, 1922.

Ser. No. 161,424. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Mar. 29, 1922.

Sporteen

Particular description of goods.—Woolen Piece Goods.
Claims use since Feb. 2, 1922.

Ser. No. 161,433. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Mar. 29, 1922.

Panthea

Particular description of goods.—Woolen Piece Goods.
Claims use since Jan. 20, 1922.

Ser. No. 161,516. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WILSON BROTHERS, Chicago, Ill. Filed Mar. 30, 1922.

KING KOTTON

Particular description of goods.—Handkerchiefs.
Claims use since about January, 1912.

Ser. No. 161,547. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOSEPH FLEISCHER, New York, N. Y. Filed Mar. 31, 1922.

CLASSIC

Particular description of goods.—Hair Nets.
Claims use since Feb. 16, 1922.

Ser. No. 161,561. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO. INC., New York, N. Y. Filed Mar. 31, 1922.

BRIGHTEYE BLUE

Particular description of goods.—Silk Piece Goods.
Claims use since January, 1922.

Ser. No. 161,621. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CELLU-METAL CORPORATION, Rochester, N. Y. Filed Apr. 1, 1922.

THREE IN ONE SET

The word "Set" apart from trade-mark is disclaimed. The lines in the letters are claimed for shading purposes only and do not denote color.
Particular description of goods.—Cardboard Toy Houses and Automobiles.
Claims use since Nov. 26, 1921.

Ser. No. 161,785. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MEYER & STROMPEN, San Francisco, Calif. Filed Apr. 5, 1922.

Particular description of goods.—Hair Nets.
Claims use since May 25, 1921.

Ser. No. 161,789. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NEUSS, HESSLEIN & CO., INC., New York, N. Y. Filed Apr. 5, 1922.

EL ARRIERO

Particular description of goods.—Woven Cotton Piece Goods—Namely, White and Colored Cotton Flannels, Outing Cloths, and Suitings.
Claims use since November, 1919.

Ser. No. 161,814. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CLARENCE WHITMAN & SON, INC., Katonah and New York, N. Y. Filed Apr. 5, 1922.

LURO'LIN

Particular description of goods.—White and Colored Silk and Cotton Piece Goods.
Claims use since Mar. 30, 1922.

Ser. No. 161,937. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE NEW DEPARTURE MANUFACTURING COMPANY, Bristol, Conn. Filed Apr. 8, 1922.

Junior

Particular description of goods.—Brakes for Cycles, Cycle Hubs, and Coaster-Brakes.
Claims use since Mar. 30, 1922.

Ser. No. 161,998. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) HYGIENIC ARTIFICIAL ICE CO., Minneapolis, Minn. Filed Apr. 10, 1922.

"HY-ART"

Particular description of goods.—Artificial Ice.
Claims use since Sept. 6, 1921.

Ser. No. 162,066. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HÉLÈNE SARDEAU, New York, N. Y. Filed Apr. 10, 1922.

Ki-Ki

Particular description of goods.—Dolls.
Claims use since on or about Dec. 27, 1921.

Ser. No. 162,175. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) HEDSTROM-SCHENCK COAL CO., Chicago, Ill. Filed Apr. 12, 1922.

The words "The Cheerful Coal" are disclaimed as a part of trade-mark.

Particular description of goods.—Anthracite and Bituminous Coals.

Claims use since Feb. 5, 1921.

Ser. No. 162,370. (CLASS 37. PAPER AND STATIONERY.) WILLIAM A. ARMSTRONG, doing business as W. A. Armstrong Paper Co., New York, N. Y. Filed Apr. 15, 1922.

Particular description of goods.—Bleached and Unbleached Sulphite Paper.

Claims use since Feb. 1, 1915.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

JUNE 20, 1922.

156,153. A MEDICINE TO BE USED AS A RELIEF FOR PAIN AFTER AN EXTRACTION. SOLOMON ABOWITCH, Brooklyn, N. Y.
Filed October 6, 1920. Serial No. 137,992. PUBLISHED FEBRUARY 14, 1922.

156,154. PREPARATION FOR THE TREATMENT OF RHEUMATISM. HARRY ADAMS, New York, N. Y.
Filed November 15, 1921. Serial No. 155,383. PUBLISHED FEBRUARY 21, 1922.

156,155. NONALCOHOLIC, MALT, CEREAL BEVERAGES. THE ADOLPH COORS B. & M. COMPANY, Golden, Colo.
Filed January 3, 1921. Serial No. 141,742. PUBLISHED MARCH 21, 1922.

156,156. A COMPOSITION FOR REMOVING SCALE FROM BOILERS AND RADIATORS. CLARK J. ALLEN, Minneapolis, Minn.
Filed October 3, 1921. Serial No. 153,635. PUBLISHED FEBRUARY 7, 1922.

156,157. ROTARY FANS. THE AMERICAN AERO COMPANY, Chicago, Ill., and South Bend, Ind.
Filed January 21, 1921. Serial No. 142,549. PUBLISHED MARCH 7, 1922.

156,158. COTTON GOODS IN THE PIECE. AMERICAN BLEACHED GOODS COMPANY, New York, N. Y.; Chicago, Ill., and St. Louis, Mo.
Filed January 9, 1922. Serial No. 157,646. PUBLISHED MARCH 14, 1922.

156,159. TUBES MADE FROM NONFERROUS METALS AND ALLOYS. THE AMERICAN BRASS COMPANY, Waterbury, Conn.
Filed October 18, 1921. Serial No. 154,258. PUBLISHED JANUARY 24, 1922.

156,160. ANTISKID CHAINS FOR VEHICLE WHEELS. AMERICAN CHAIN COMPANY, INC., New York, N. Y., and Fairfield, Conn.
Filed September 14, 1921. Serial No. 152,908. PUBLISHED MARCH 7, 1922.

156,161. TOOTH PASTE, MASSAGE CREAM, TOOTH POWDER, FOOT POWDER, AND TALCUM POWDER. AMERICAN DRUGGISTS SYNDICATE, Long Island City, N. Y.
Filed April 6, 1921. Serial No. 145,762. PUBLISHED JANUARY 31, 1922.

156,162. SULPHATE OF IRON. THE AMERICAN STEEL & WIRE COMPANY OF NEW JERSEY, Cleveland, Ohio.
Filed December 1, 1921. Serial No. 156,141. PUBLISHED FEBRUARY 28, 1922.

156,163. MEDICINAL PREPARATIONS FOR THE TREATMENT OF CHOLERA, DIARRHEA, AND BOWEL AILMENTS IN FOWLS. MARIUS H. ADERSEN, Dike, Iowa.
Filed October 6, 1921. Serial No. 153,792. PUBLISHED JANUARY 24, 1922.

156,164. MINERAL WATER. ANGEL VELO Y FILGUEIRA, Habana, Cuba.
Filed November 24, 1920. Serial No. 140,084. PUBLISHED MARCH 21, 1922.

156,165. CRAYONS. THE ART CRAYON CO., New York, N. Y.
Filed January 18, 1922. Serial No. 158,070. PUBLISHED MARCH 14, 1922.

156,166. FISHING LINE. ASHAWAY LINE & TWINE MANUFACTURING COMPANY, Ashaway, R. I.
Filed January 12, 1922. Serial No. 157,797. PUBLISHED MARCH 14, 1922.

156,167. FISHING LINE. ASHAWAY LINE & TWINE MANUFACTURING COMPANY, Ashaway, R. I.
Filed January 12, 1922. Serial No. 157,803. PUBLISHED MARCH 14, 1922.

156,168. FISHING LINE. ASHAWAY LINE & TWINE MANUFACTURING COMPANY, Ashaway, R. I.
Filed January 12, 1922. Serial No. 157,808. PUBLISHED MARCH 14, 1922.

156,169. CERTAIN MACHINERY AND TOOLS. AXELSON MACHINE COMPANY, Los Angeles, Calif.
Filed February 19, 1921. Serial No. 143,802. PUBLISHED FEBRUARY 28, 1922.

156,170. HEALING POWDER FOR WOUNDS, CUTS, AND BRUISES. ANTON AUGIS, Winegar, Wis.
Filed October 25, 1921. Serial No. 154,548. PUBLISHED FEBRUARY 28, 1922.

156,171. MEN'S AND WOMEN'S BOOTS AND SHOES OF LEATHER AND COMBINATIONS OF LEATHER AND FABRIC. AULT-WILLIAMSON SHOE CO., Auburn, Me.
Filed October 25, 1921. Serial No. 154,547. PUBLISHED FEBRUARY 14, 1922.

156,172. PIPES AND CIGAR HOLDERS. JOHN BACHMANN, Chicago, Ill.
Filed November 12, 1921. Serial No. 155,300. PUBLISHED MARCH 7, 1922.

156,173. TALCUM POWDER. BAUER & BLACK, Chicago, Ill.
Filed October 1, 1921. Serial No. 153,584. PUBLISHED JANUARY 24, 1922.

156,174. ANTIRHEUMATIC, ANALGESIC, AND ANTIPYRITIC. THE BAYER COMPANY, INC., New York, N. Y.
Filed November 17, 1921. Serial No. 155,478. PUBLISHED FEBRUARY 28, 1922.

156,175. INSECTICIDES. BEAR CHEMICAL COMPANY, Reading, Pa.
Filed November 15, 1921. Serial No. 155,389. PUBLISHED MARCH 14, 1922.

156,176. NONINTOXICATING, NONALCOHOLIC, NONCEREAL, MALTLESS FRUIT BEVERAGE SOLD AS A SOFT DRINK AND SIRUPS USED IN THE PREPARATION OF SAME. CALVIN L. BEARDSLEY, Rock Island, Ill.
Filed January 23, 1922. Serial No. 158,285. PUBLISHED MARCH 7, 1922.

156,177. NONINTOXICATING, NONALCOHOLIC, NONCEREAL, MALTLESS FRUIT BEVERAGE SOLD AS A SOFT DRINK AND SIRUPS USED IN THE PREPARATION OF SAME. CALVIN L. BEARDSLEY, Rock Island, Ill.
Filed January 23, 1922. Serial No. 158,286. PUBLISHED MARCH 7, 1922.

156,178. NONINTOXICATING, NONALCOHOLIC, NONCEREAL, MALTLESS FRUIT BEVERAGE SOLD AS A SOFT DRINK AND SIRUPS USED IN THE PREPARATION OF SAME. CALVIN L. BEARDSLEY, Rock Island, Ill.
Filed January 23, 1922. Serial No. 158,287. PUBLISHED MARCH 7, 1922.

156,179. COAL. RAYMOND H. BELL, Columbus, Ohio.
Filed November 28, 1921. Serial No. 155,990. PUBLISHED JANUARY 31, 1922.

156,180. CORSETS AND BRASSIÈRES. BENJAMIN & JOHNES, Newark, N. J.
Filed November 5, 1920. Serial No. 139,191. PUBLISHED MARCH 14, 1922.

156,181. VELVETS. BENNETT AND ASPDEN COMPANY, Philadelphia, Pa.
Filed January 3, 1921. Serial No. 141,762. PUBLISHED MARCH 14, 1922.

156,182. MEDICINAL PREPARATIONS USEFUL FOR TREATMENT OF DISEASE OF THE BLADDER AND THE GALL. E. BILHUBER, INCORPORATED, New York, N. Y.
Filed October 7, 1921. Serial No. 153,838. PUBLISHED JANUARY 24, 1922.

156,183. TOYS—NAMELY, BOXES WITH BUILDING ELEMENTS OF STONE, ARTIFICIAL STONE, WOOD, OR IRON. BING WERKE VORM. GEBRÜDER BING A. G., Nuremberg, Germany.
Filed December 14, 1920. Serial No. 141,058. PUBLISHED MARCH 21, 1922.

156,184. TOYS—NAMELY, TOY BRICKS OF STONE, ARTIFICIAL STONE, WOOD, OR METAL. BING-WERKE, VORM. GEBRÜDER BING A. G., Nuremberg, Germany.
Filed June 17, 1921. Serial No. 149,265. PUBLISHED MARCH 21, 1922.

156,185. PREPARATION FOR THE TREATMENT OF TUBERCULOSIS. HARRIET G. BISHOP, Tulsa, Okla.
Filed July 12, 1920. Serial No. 134,801. PUBLISHED JANUARY 3, 1922.

156,186. CERTAIN ARTICLES OF CUTLERY AND TOOLS. BLISH, MIZE & SILLIMAN HARDWARE CO., Atchison, Kans.
Filed May 28, 1921. Serial No. 148,365. PUBLISHED FEBRUARY 28, 1922.

156,187. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y., assignor to Central Union Trust Company of New York, trustee, New York, N. Y., a Corporation of New York.
Filed January 24, 1922. Serial No. 158,359. PUBLISHED MARCH 21, 1922.

156,188. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y., assignor to Central Union Trust Company of New York, trustee, New York, N. Y., a Corporation of New York.
Filed January 24, 1922. Serial No. 158,376. PUBLISHED MARCH 21, 1922.

156,189. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y., assignor to Central Union Trust Company of New York, trustee, New York, N. Y., a Corporation of New York.
Filed January 24, 1922. Serial No. 158,377. PUBLISHED MARCH 21, 1922.

156,190. INSECTICIDES, BACTERICIDES, DISINFECTANTS, AND FUNGICIDES FOR PLANTS. BOBWHITE CHEMICAL CORPORATION, New York, N. Y.
Filed November 2, 1921. Serial No. 154,916. PUBLISHED FEBRUARY 14, 1922.

156,191. HAIR NETS. BRETT MANUFACTURING COMPANY, INC., New York, N. Y.
Filed December 14, 1921. Serial No. 156,674. PUBLISHED MARCH 7, 1922.

156,192. SHOE PARTS—NAMELY, RUBBER HEELS. BROOKS & CO., INC., Boston, Mass.
Filed September 15, 1921. Serial No. 152,945. PUBLISHED DECEMBER 27, 1921.

156,193. MEDICINAL PREPARATION FOR TREATING PILES. A. E. BURNETT, Fort Worth, Tex.
Filed November 4, 1921. Serial No. 155,007. PUBLISHED FEBRUARY 28, 1922.

156,194. REFRIGERATING APPARATUS; ARTIFICIAL-ICE MACHINERY, INCLUDING FREEZING TANKS. EASTMAN A. BURROWS, Chicago, Ill.
Filed December 19, 1921. Serial No. 156,878. PUBLISHED FEBRUARY 21, 1922.

156,195. HAIR DRESSING USED FOR STRAIGHTENING AND GROWING THE HAIR. RALPH C. BUTLER, Elaine, Ark.
Filed March 11, 1921. Serial No. 144,603. PUBLISHED JANUARY 3, 1922.

156,196. COTTON PIECE GOODS. FRED BUTTERFIELD & CO. INC., New York, N. Y.
Filed December 8, 1921. Serial No. 156,436. PUBLISHED MARCH 7, 1922.

156,197. MOUTH WASH. THE CALENDULINE COMPANY OF CALIFORNIA, Baltimore, Md.
Filed November 15, 1921. Serial No. 155,396. PUBLISHED FEBRUARY 28, 1922.

156,198. SCREEN WIRE, DOOR STOPS, TRANSOM LIFTS, KNOBS, DRAWER PULLS AND KNOBS, SASH LIFTS, AND ESCUTCHEONS. WM. CAMERON & CO. INC., Waco, Tex.
Filed August 4, 1921. Serial No. 151,354. PUBLISHED FEBRUARY 28, 1922.

156,199. HAT DYE. GEORGE H. CAPEN, Canton Junction, Mass.
Filed November 15, 1921. Serial No. 155,392. PUBLISHED FEBRUARY 21, 1922.

156,200. ROLLED-METAL RAILS, BARS, PLATES, AND OTHER ROLLED-METAL SHAPES. CARNEGIE STEEL COMPANY, Pittsburgh, Pa.
Filed October 29, 1921. Serial No. 154,723. PUBLISHED FEBRUARY 28, 1922.

156,201. ROOT BEER. MASON CASE, Los Angeles, Calif.
Filed June 13, 1921. Serial No. 149,059. PUBLISHED MARCH 21, 1922.

156,202. CERTAIN LABORATORY AND DENTAL APPARATUS. THE L. D. CAULK COMPANY, Milford, Del.
Filed August 6, 1921. Serial No. 151,508. PUBLISHED MARCH 7, 1922.

156,203. CERTAIN NAMED PHARMACEUTICAL PREPARATIONS. THE J. X. CHEMICAL COMPANY, Baltimore, Md.
Filed November 14, 1921. Serial No. 155,350. PUBLISHED FEBRUARY 21, 1922.

156,204. WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE COMPRISED IN WHOLE OR IN PART OF SILK. CHENEY BROTHERS, South Manchester, Conn.
Filed December 1, 1921. Serial No. 156,148. PUBLISHED MARCH 28, 1922.

156,205. WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE COMPRISED IN WHOLE OR IN PART OF SILK. CHENEY BROTHERS, South Manchester, Conn.
Filed January 6, 1922. Serial No. 157,555. PUBLISHED MARCH 14, 1922.

156,206. PERFUME, TOILET WATER, SACHET POWDER, TALCUM POWDER, FACE POWDER, BRILLIANTINE, ROUGE, COLD CREAM, AND GREASELESS CREAM. CHERAMY, INCORPORATED, New York, N. Y.
Filed October 10, 1921. Serial No. 153,922. PUBLISHED JANUARY 24, 1922.

156,207. CANDY COMPRISED WHOLLY OR IN PART OF CHOCOLATE. CHOCOLATE PRODUCTS COMPANY, Baltimore, Md.
Filed September 7, 1921. Serial No. 152,673. PUBLISHED FEBRUARY 21, 1922.

156,208. NONALCOHOLIC, MALTLESS, CARBONATED BEVERAGE SOLD AS A SOFT DRINK. THE COCA COLA BOTTLING COMPANY, Chicago, Ill.
Filed November 3, 1921. Serial No. 154,961. PUBLISHED MARCH 21, 1922.

156,209. RULED SHEETS TO BE USED FOR MAKING GRAPHIC CHARTS. CODEX BOOK CO., INC., New York, N. Y.
Filed February 10, 1922. Serial No. 159,141. PUBLISHED MARCH 14, 1922.

156,210. A PREPARATION FOR COUGHS, COLDS, AND MILD BRONCHIAL AILMENTS. JAMES A. COE, Jersey City, N. J.
Filed September 28, 1921. Serial No. 153,444. PUBLISHED FEBRUARY 7, 1922.

156,211. COTTON PIECE GOODS. COHN-HALL-MARX CO., New York, N. Y.
Filed January 12, 1922. Serial No. 157,828. PUBLISHED MARCH 21, 1922.

156,212. WALNUTS IN THEIR NATURAL STATE. C. C. COLLINS COMPANY, Santa Ana, Calif.
Filed September 13, 1921. Serial No. 152,886. PUBLISHED FEBRUARY 14, 1922.

156,213. A DISINFECTANT. COLONIAL CHEMICAL CORPORATION, Reading, Pa.
Filed October 31, 1921. Serial No. 154,792. PUBLISHED FEBRUARY 14, 1922.

156,214. AN ELIXIR AND A SUPPOSITORY FOR CERTAIN NAMED USES. COLTON & COLLINS, INC., Oakland, Calif.
Filed June 2, 1921. Serial No. 148,530. PUBLISHED JANUARY 3, 1922.

156,215. PLASTIC MATERIAL HAVING A BASE OF CASEIN. COMPAGNIE GENERALE D'ELECTRICITE, Paris, France.
Filed June 15, 1920. Serial No. 133,728. PUBLISHED JANUARY 31, 1922.

156,216. BLUING. CONDENSED BLUING COMPANY, Chicago, Ill.
Filed February 4, 1921. Serial No. 143,160. PUBLISHED FEBRUARY 21, 1922.

156,217. IRISH FRIEZES AND WOOLEN CLOTHS. E. CONNOR & COMPANY, INC., New York, N. Y.
Filed September 13, 1921. Serial No. 152,885. PUBLISHED MARCH 21, 1922.

156,218. RUBBING ALCOHOL. CONTINENTAL DRUG CORPORATION, St. Louis, Mo.
Filed October 21, 1921. Serial No. 154,402. PUBLISHED JANUARY 31, 1922.

156,219. KNITTED, WOOLEN, AND WORSTED CLOTH OR FABRIC IN THE PIECE. CONTINENTAL MILLS, INC., Philadelphia, Pa.
Filed November 23, 1921. Serial No. 155,806. PUBLISHED MARCH 28, 1922.

156,220. CHILDREN'S OUTER GARMENTS—NAMELY, CHILDREN'S DRESSES. COOPER, COATE & CASEY DRY GOODS CO., Los Angeles, Calif.
Filed May 17, 1920. Serial No. 132,509. PUBLISHED MARCH 14, 1922.

156,221. FRESH ORANGES. COVINA ORANGE GROWERS ASSOCIATION, Covina, Calif.
Filed September 28, 1921. Serial No. 153,440. PUBLISHED MARCH 14, 1922.

156,222. GRASS CARPETS AND RUGS. CREX CARPET COMPANY, New York, N. Y.
Filed December 5, 1921. Serial No. 156,260. PUBLISHED MARCH 7, 1922.

156,223. POWDER PUFFS. MORRIS CRUPAIN, Newark, N. J.
Filed December 6, 1921. Serial No. 156,322. PUBLISHED MARCH 14, 1922.

156,224. NONALCOHOLIC, MALTLESS FLAVORING FOR MAKING BEVERAGES. DAVIES, ROSE & CO., LTD., Boston, Mass.
Filed December 9, 1921. Serial No. 156,479. PUBLISHED MARCH 14, 1922.

156,225. NONALCOHOLIC, MALTLESS FLAVORING FOR MAKING BEVERAGES. DAVIES, ROSE & CO., LTD., Boston, Mass.
Filed December 9, 1921. Serial No. 156,481. PUBLISHED MARCH 14, 1922.

156,226. MEDICINE (A YEAST LAXATIVE). ABRAHAM M. DAVIS, Chicago, Ill.
Filed January 13, 1921. Serial No. 142,203. PUBLISHED FEBRUARY 21, 1922.

156,227. MEN'S AND WOMEN'S HATS. DAVIS-POPE COMPANY INCORPORATED, Norwalk, Conn.
Filed July 8, 1921. Serial No. 150,139. PUBLISHED FEBRUARY 7, 1922.

156,228. MILK PRODUCTS—NAMELY, STERILIZED AND CONDENSED MILK, CREAM, AND DRIED MILK. DE DANSKE MEJERIFORENINGERS MAELKEEXPORT, Aarhus, Denmark.
Filed June 15, 1921. Serial No. 149,173. PUBLISHED FEBRUARY 14, 1922.

156,229. SHOES OF LEATHER, CANVAS, OR A COMBINATION OF BOTH MATERIALS. DEGEN-LIPP, INC., Brooklyn, N. Y.
Filed November 29, 1921. Serial No. 156,050. PUBLISHED FEBRUARY 14, 1922.

156,230. A COFFEE COMPOUND CONTAINING A SMALL PROPORTION OF GENUINE COFFEE TO BE USED AS A COFFEE SUBSTITUTE. DELISCO CORPORATION LIMITED, Boston, Mass.
Filed January 25, 1921. Serial No. 142,752. PUBLISHED FEBRUARY 14, 1922.

156,231. CAPS FOR MEN. DAVID D. DONIGER & CO. INC., New York, N. Y.
Filed July 19, 1921. Serial No. 150,593. PUBLISHED FEBRUARY 14, 1922.

156,232. AN ACCELERATOR FOR VULCANIZATION OF RUBBER. DOVAN CHEMICAL CORPORATION, Wilmington, Del., and Newark, N. J.
Filed November 1, 1921. Serial No. 154,866. PUBLISHED FEBRUARY 7, 1922.

156,233. CERTAIN NAMED MEDICINAL PREPARATIONS. JOHN M. DRESSLER, Dallas, Tex.
Filed November 5, 1921. Serial No. 155,051. PUBLISHED MARCH 14, 1922.

156,234. MOLASSES. DUNBAR MOLASSES & SYRUP CO., New Orleans, La.
Filed April 20, 1921. Serial No. 146,416. PUBLISHED FEBRUARY 14, 1922.

156,235. LEATHER SHOES. EDMONDS SHOE COMPANY, Milwaukee, Wis.
Filed December 30, 1921. Serial No. 157,310. PUBLISHED FEBRUARY 21, 1922.

156,236. A LIQUID MEDICINAL COMPOUND FOR RHEUMATISM, INDIGESTION, AND KIDNEY TROUBLES. FREDERICK J. EMERSON, East Boston, Mass.
Filed January 10, 1920. Serial No. 127,006. PUBLISHED OCTOBER 26, 1920.

156,237. HANDKERCHIEFS AND BANDANNAS. EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y.
Filed November 25, 1921. Serial No. 155,874. PUBLISHED MARCH 7, 1922.

156,238. HANDKERCHIEFS AND BANDANNAS. EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y.
Filed November 25, 1921. Serial No. 155,875. PUBLISHED MARCH 7, 1922.

156,239. LIQUID NAIL ENAMEL. GEORGE N. ERIKSEN, Newark, N. J.
Filed October 17, 1921. Serial No. 154,180. PUBLISHED FEBRUARY 28, 1922.

156,240. CANTON FLANNELS, TICKINGS, COVERT CLOTHS, SHEETINGS, AND DRILLS, ALL IN THE PIECE. THE ERWIN COTTON MILLS CO., West Durham, N. C.
Filed October 27, 1921. Serial No. 154,640. PUBLISHED FEBRUARY 7, 1922.

156,241. CANDY. THE EUCLID CANDY COMPANY, Cleveland, Ohio.
Filed October 20, 1921. Serial No. 154,356. PUBLISHED FEBRUARY 28, 1922.

156,242. LIQUID ANTIPHLOGISTIC DRESSING. WM. G. EVANS, Kansas City, Mo.
Filed November 10, 1920. Serial No. 139,454. PUBLISHED APRIL 12, 1921.

156,243. SHOES MADE OF LEATHER AND COMBITIONS OF LEATHER AND CLOTH. THE FAIR, Chicago, Ill.
Filed July 15, 1921. Serial No. 150,399. PUBLISHED JANUARY 31, 1922.

156,244. SHOES MADE OF LEATHER AND COMBINATIONS OF LEATHER AND CLOTH. THE FAIR, Chicago, Ill.
Filed December 22, 1921. Serial No. 157,029. PUBLISHED FEBRUARY 14, 1922.

156,245. PARLOR BASEBALL GAMES. IRVING FIEDLER, Chicago, Ill.
Filed November 21, 1921. Serial No. 155,676. PUBLISHED MARCH 14, 1922.

156,246. GREASE CUPS. FLANNERY BOLT COMPANY, Pittsburgh, Pa.
Filed October 18, 1921. Serial No. 154,266. PUBLISHED MARCH 7, 1922.

156,247. KIDNEY MEDICINE AND NERVE TONIC. JOHN H. FOREHAND, Corona, Calif.
Filed June 2, 1921. Serial No. 148,539. PUBLISHED JANUARY 3, 1922.

156,248. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed July 19, 1921. Serial No. 150,603. PUBLISHED MARCH 21, 1922.

156,249. CERTAIN ARTICLES OF CLOTHING. FRANKLIN SIMON & Co. INC., New York, N. Y.
Filed August 9, 1921. Serial No. 151,599. PUBLISHED FEBRUARY 7, 1922.

156,250. HAIR NETS. FRENCH IMPORTING Co., Chicago, Ill.
Filed December 12, 1921. Serial No. 156,573. PUBLISHED MARCH 7, 1922.

156,251. COUGH REMEDY. LENA FROLONG, Los Angeles, Calif.
Filed February 28, 1921. Serial No. 144,135. PUBLISHED FEBRUARY 28, 1922.

156,252. CERTAIN NAMED PHARMACEUTICAL PREPARATIONS. JOHN M. FROST, Buffalo, N. Y.
Filed September 8, 1919. Serial No. 122,431. PUBLISHED FEBRUARY 21, 1922.

156,253. COTTON PIECE GOODS. N. FLUEGELMAN & Co. INC., New York, N. Y.
Filed December 31, 1921. Serial No. 157,361. PUBLISHED MARCH 7, 1922.

156,254. PREPARATION FOR THE TREATMENT OF PYORRHEA. THE FUGO CHEMICAL COMPANY, Pocatello, Idaho.
Filed October 11, 1921. Serial No. 153,972. PUBLISHED JANUARY 24, 1922.

156,255. CHILDREN'S DRAWING BOOKS. SAML. GABRIEL SONS & COMPANY, New York, N. Y.
Filed December 9, 1921. Serial No. 156,486. PUBLISHED MARCH 14, 1922.

156,256. NONERASABLE WRITING, MARKING, AND DRAWING INK. JOSEPH GAMS, doing business as Protection Ink Company, New York, N. Y.
Filed July 26, 1921. Serial No. 150,964. PUBLISHED JANUARY 31, 1922.

156,257. SKIN CREAM. THE GEER DRUG COMPANY, Charleston, S. C.
Filed July 14, 1919. Serial No. 120,531. PUBLISHED FEBRUARY 14, 1922.

156,258. HOT-AIR HAIR-WAVING APPARATUS. GEM AIR PERMANENT WAVE Co., New York, N. Y.
Filed April 24, 1920. Serial No. 131,571. PUBLISHED FEBRUARY 28, 1922.

156,259. SHOE SOLES AND HEELS MADE OF OR CONTAINING RUBBER. THE GENERAL TIRE AND RUBBER COMPANY, Akron, Ohio.
Filed December 9, 1921. Serial No. 156,485. PUBLISHED JANUARY 24, 1922.

156,260. A PREPARATION TO BE USED EXTERNALLY FOR CERTAIN NAMED PURPOSES. Dr. JERONYMO GESTEIRA, Para, Brazil.
Filed June 23, 1920. Serial No. 134,066. PUBLISHED FEBRUARY 28. 1922.

156,261. A GENERAL UTERUS TONIC. Dr. JERONYMO GESTEIRA, Para, Brazil.
Filed June 23, 1920. Serial No. 134,067. PUBLISHED JANUARY 3, 1922.

156,262. A MEDICINAL PREPARATION FOR CONSTIPATION AND DISEASES CAUSED BY WEAKNESS OF THE BOWELS. Dr. JERONYMO GESTEIRA, Para, Brazil.
Filed June 23, 1920. Serial No. 134,068. PUBLISHED JANUARY 3, 1922.

156,263. WOMEN'S LEATHER AND COMBINATION SHOES. C. S. GIBBON Co., Philadelphia, Pa.
Filed June 23, 1921. Serial No. 149,545. PUBLISHED DECEMBER 27, 1921.

156,264. SAFETY RAZORS. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass.
Filed June 11, 1921. Serial No. 148,997. PUBLISHED MARCH 7, 1922.

156,265. HAIR NETS. S. GLEMBY'S SONS Co., INC., New York, N. Y.
Filed January 7, 1922. Serial No. 157,610. PUBLISHED MARCH 7, 1922.

156,266. HOSIERY. GOLD SEAL KNITTING MILLS, Reading, Pa.
Filed July 18, 1921. Serial No. 150,525. PUBLISHED MARCH 14, 1922.

156,267. METAL PIPES, METAL PIPE FITTINGS, METAL SOAP CONTAINERS, METAL TOWEL RACKS, AND METAL FAUCETS. GOMEZ & SLOAN, INC., New York, N. Y.
Filed September 27, 1921. Serial No. 153,397. PUBLISHED FEBRUARY 21, 1922.

156,268. WRAPPING PAPER. GRAHAM PAPER COMPANY, St. Louis, Mo.
Filed December 21, 1921. Serial No. 156,993. PUBLISHED MARCH 14, 1922.

156,269. DYES AND DYESTUFFS, MORDANTS FOR DYEING, AND PHOTOGRAPHIC CHEMICALS. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio.
Filed October 12, 1921. Serial No. 154,021. PUBLISHED FEBRUARY 7, 1922.

156,270. DYE AND DYESTUFFS. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio.
Filed October 12, 1921. Serial No. 154,022. PUBLISHED JANUARY 24, 1922.

156,271. DYES AND DYESTUFFS. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio.
Filed December 7, 1921. Serial No. 156,367. PUBLISHED FEBRUARY 28, 1922.

156,272. CHEMICAL PREPARATIONS FOR CERTAIN NAMED PURPOSES. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio.
Filed December 7, 1921. Serial No. 156,368. PUBLISHED FEBRUARY 28, 1922.

156,273. DYES AND DYESTUFFS. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio.
Filed December 7, 1921. Serial No. 156,369. PUBLISHED FEBRUARY 28. 1922.

156,274. DYES AND DYESTUFFS. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio.
Filed December 7, 1921. Serial No. 156,370. PUBLISHED FEBRUARY 28, 1922.

156,275. DYES AND DYESTUFFS. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio.
Filed December 7, 1921. Serial No. 156,371. PUBLISHED FEBRUARY 28, 1922.

156,276. ANTISEPTICS, DISINFECTANTS, FUNGICIDES, AND INSECTICIDES. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio.
Filed December 7, 1921. Serial No. 156,372. PUBLISHED MARCH 7, 1922.

156,277. DYES AND DYESTUFFS. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio.
Filed December 7, 1921. Serial No. 156,374. PUBLISHED FEBRUARY 28, 1922.

156,278. DYES AND DYESTUFFS. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio.
Filed December 7, 1921. Serial No. 156,375. PUBLISHED FEBRUARY 28, 1922.

156,279. DYES AND DYESTUFFS. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio.
Filed December 7, 1921. Serial No. 156,376. PUBLISHED FEBRUARY 28, 1922.

156,280. PHOTOGRAPHIC DEVELOPERS. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio.
Filed December 7, 1921. Serial No. 156,377. PUBLISHED FEBRUARY 28, 1922.

156,281. A CHEMICAL FOR PREVENTING DECOMPOSITION. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio.
Filed December 7, 1921. Serial No. 156,379. PUBLISHED FEBRUARY 28, 1922.

156,282. LADIES' AND MISSES' COATS, CLOAKS, AND SUITS. HARRY GREENBERG CO. INC., New York, N. Y.
Filed June 18, 1921. Serial No. 149,325. PUBLISHED MARCH 14, 1922.

156,283. PRESSURE REGULATORS, STRAINERS, EXPANSION JOINTS, AND FEED-WATER-PURIFYING APPARATUS, INCLUDING GREASE EXTRACTORS. THE GRISCOM-RUSSELL COMPANY, New York, N. Y.
Filed September 22, 1921. Serial No. 153,209. PUBLISHED MARCH 7, 1922.

156,284. BREAD PANS, CANDY PANS, COFFEE BOILERS, FARINA BOILERS, DINNER CARRIERS, BAKE PANS, AND METAL PAILS. GUSTAV GLASER CO., INC., New York, N. Y.
Filed June 8, 1920. Serial No. 133,415. PUBLISHED MARCH 7, 1922.

156,285. PREPARATIONS FOR CERTAIN NAMED PURPOSES. ARCHIBALD T. HARGEST, Middletown, N. Y.
Filed October 29, 1921. Serial No. 154,745. PUBLISHED MARCH 14, 1922.

156,286. CHENILLE CARPETS. HARDWICK & MAGEE COMPANY, Philadelphia, Pa.
Filed December 22, 1921. Serial No. 157,036. PUBLISHED MARCH 7, 1922.

156,287. CANNED FRUITS, CANNED VEGETABLES, CANNED FISH, AND TEAS. THE E. C. HARLEY COMPANY, Dayton, Ohio.
Filed December 15, 1920. Serial No. 141,109. PUBLISHED FEBRUARY 14, 1922.

156,288. WRITING CASES AND TABLETS, WRITING SETS, AND TELEPHONE REGISTERS. HAUSER & WEIL, New York, N. Y.
Filed February 8, 1922. Serial No. 159,030. PUBLISHED MARCH 14, 1922.

156,289. A MEDICINE FOR THE TREATMENT OF CANCER. WILLIAM H. HAVENS, Gary, Ind.
Filed July 7, 1921. Serial No. 150,106. PUBLISHED MARCH 7, 1922.

156,290. A MEDICINAL FATTENING COMPOUND FOR ANIMALS. HEGEWISCH CHEMICAL WORKS, Chicago, Ill.
Filed March 29, 1920. Serial No. 130,328. PUBLISHED NOVEMBER 1, 1921.

156,291. PERFUME. ABRAM W. HERBST, New York, N. Y.
Filed October 12, 1921. Serial No. 154,026. PUBLISHED JANUARY 24, 1922.

156,292. PERFUME. ABRAM W. HERBST, New York, N. Y.
Filed October 12, 1921. Serial No. 154,027. PUBLISHED JANUARY 24, 1922.

156,293. HAIR NETS. MOSES HERZOG, New York, N. Y.
Filed December 10, 1921. Serial No. 156,530. PUBLISHED MARCH 21, 1922.

156,294. CANNED SALMON. HETTA PACKING CO., INC., Sulzer, Territory of Alaska.
Filed November 1, 1921. Serial No. 154,876. PUBLISHED MARCH 7, 1922.

156,295. CERTAIN ARTICLES OF CLOTHING. HICKS-HAYWARD COMPANY, El Paso, Tex.
Filed July 16, 1921. Serial No. 150,446. PUBLISHED MARCH 14, 1922.

156,296. COTTON PIECE GOODS—NAMELY, COTTON TWILLS. HILL MANUFACTURING CO., Lewiston, Me.
Filed December 31, 1921. Serial No. 157,370. PUBLISHED MARCH 21, 1922.

156,297. A PREPARATION FOR PREVENTING CORROSION OF THE TERMINALS OF STORAGE BATTERIES. GEORGE F. HILTON, St. Augustine, Ill.
Filed October 31, 1921. Serial No. 154,797. PUBLISHED FEBRUARY 14, 1922.

156,298. A HAIR TONIC. C. E. HOFFMAN COMPANY, Dallas, Tex.
Filed October 7, 1921. Serial No. 153,844. PUBLISHED JANUARY 24, 1922.

156,299. A HAIR TONIC. C. E. HOFFMAN COMPANY, Dallas, Tex.
Filed October 7, 1921. Serial No. 153,845. PUBLISHED FEBRUARY 14, 1922.

156,300. HONEY, OLIVE OIL, PEANUT BUTTER, FRUIT JAM, FRUIT JELLY, MAYONNAISE, MAPLE SIRUP, CANE AND MAPLE SIRUP, AND MAPLE SUGAR. HOFFMAN & HAUCK INC., Woodhaven, N. Y.
Filed September 3, 1921. Serial No. 152,558. PUBLISHED MARCH 14, 1922.

156,301. APERIENT MEDICINAL PREPARATION. A. D. HOLLAND & CO., Chicago, Ill.
Filed December 7, 1921. Serial No. 156,384. PUBLISHED FEBRUARY 28, 1922.

156,302. GOLF BALLS. HOLMAC, INC., New York, N. Y.
Filed February 7, 1922. Serial No. 158,979. PUBLISHED MARCH 14, 1922.

156,303. A FEMALE REMEDY RECOMMENDED FOR OVARIAN TROUBLES, ETC. JOHN F. HOTT, Monticello, Ill.
Filed November 8, 1921. Serial No. 155,173. PUBLISHED MARCH 14, 1922.

156,304. CERTAIN NAMED TOILET PREPARATIONS. R. A. HUDSON COMPANY INCORPORATED, Auburn, N. Y.
Filed October 4, 1921. Serial No. 153,727. PUBLISHED FEBRUARY 21, 1922.

156,305. PREPARATION FOR THE TREATMENT OF RHEUMATISM, GOUT, SCIATICA, LUMBAGO, URIC AND LACTIC ACID CONDITIONS, ETC. W. H. HUGHES, Sapulpa, Okla.
Filed November 14, 1921. Serial No. 155,348. PUBLISHED FEBRUARY 21, 1922.

156,306. PENCILS. INKOGRAPH COMPANY, INC., New York, N. Y.
Filed February 2, 1922. Serial No. 158,776. PUBLISHED MARCH 14, 1922.

156,307. CERTAIN NAMED CHEMICALS. INNIS, SPEIDEN & CO., INC., New York, N. Y.
Filed October 18, 1921. Serial No. 154,275. PUBLISHED FEBRUARY 21, 1922.

156,308. LINENS AND CANVAS IN PIECE GOODS AND TABLECLOTHS, NAPKINS, HANDKERCHIEFS. IRISH LINENS, INC., New York, N. Y.
Filed September 14, 1921. Serial No. 152,922. PUBLISHED MARCH 14, 1922.

156,309. SILKS IN THE PIECE. JANSEN & PRETZFELD, INC., New York, N. Y.
Filed July 23, 1921. Serial No. 150,866. PUBLISHED MARCH 14, 1922.

156,310. SILKS IN THE PIECE. JANSEN & PRETZFELD, INC., New York, N. Y.
Filed January 19, 1922. Serial No. 158,123. PUBLISHED MARCH 21, 1922.

156,311. SILKS IN THE PIECE. JANSEN & PRETZFELD, INC., New York, N. Y.
Filed January 19, 1922. Serial No. 158,124. PUBLISHED MARCH 28, 1922.

156,312. COUGH MEDICINE. MINNA A. JASPER, Rochester, N. Y.
Filed October 7, 1921. Serial No. 153,846. PUBLISHED FEBRUARY 21, 1922.

156,313. ANTISEPTIC WASH. JOHN J. JENKINS, Victor, Colo.
Filed November 14, 1921. Serial No. 155,349. PUBLISHED FEBRUARY 21, 1922.

156,314. LADIES' HATS AND GOWNS. JULIET JOHANNA JONAS, New York, N. Y.
Filed August 10, 1921. Serial No. 151,632. PUBLISHED FEBRUARY 7, 1922.

156,315. HAIR NETS. THE F. M. KEELER CO., Boston, Mass.
Filed December 13, 1921. Serial No. 156,642. PUBLISHED MARCH 14, 1922.

156,316. A SALVE OR PREPARATION FOR THROAT AND LUNG TROUBLE. JOHN A. KELLY, Great Falls, Mont.
Filed September 23, 1920. Serial No. 137,529. PUBLISHED MARCH 14, 1922.

156,317. A VEGETABLE COMPOUND USED AS A GENERAL TONIC AND BLOOD MEDICINE. F. J. KENNEDY, Charlotte, N. C.
Filed November 12, 1921. Serial No. 155,310. PUBLISHED MARCH 14, 1922.

156,318. HOPS. KLATSCHER & LORENZ, INC., New York, N. Y.
Filed July 14, 1920. Serial No. 134,965. PUBLISHED JANUARY 31, 1922.

156,319. LINIMENTS FOR CERTAIN NAMED USES. JAMES J. KLAVON, Pittsburgh, Pa.
Filed June 7, 1921. Serial No. 148,805. PUBLISHED FEBRUARY 21, 1922.

156,320. WELDED AND RIVETED PIPE, RAILWAY SPIKES, AND BOLTS, NUTS, AND METALLIC WASHERS. KOPPEL INDUSTRIAL CAR & EQUIPMENT COMPANY, Koppel and Pittsburgh, Pa.
Filed May 13, 1920. Serial No. 132,390. PUBLISHED MARCH 7, 1922.

156,321. RAILWAY RAILS AND CERTAIN RAILWAY-RAIL ACCESSORIES. KOPPEL INDUSTRIAL CAR & EQUIPMENT COMPANY, Koppel and Pittsburgh, Pa.
Filed May 13, 1920. Serial No. 132,393. PUBLISHED FEBRUARY 28, 1922.

156,322. MEDICINAL PREPARATION FOR THE TREATMENT OF THE STOMACH, LIVER, AND BOWELS. KRUGER DRUG CO., Brooklyn, N. Y.
Filed October 27, 1921. Serial No. 154,653. PUBLISHED FEBRUARY 7, 1922.

156,323. FRESH DECIDUOUS FRUIT. THE LAMB FRUIT COMPANY, Milton, Oreg.
Filed September 16, 1921. Serial No. 153,006. PUBLISHED FEBRUARY 21, 1922.

156,324. FILTERS. LA SOCIETE ANONYME DU FILTRE CHAMBERLAND, SYSTEME PASTEUR, Paris, France.
Filed November 28, 1921. Serial No. 156,005. PUBLISHED MARCH 14, 1922.

156,325. SKIN LOTION. THE LAVELVO COMPANY, Columbus, Ohio.
Filed November 10, 1921. Serial No. 155,265. PUBLISHED FEBRUARY 21, 1922.

156,326. HEALING SALVE FOR WOUNDS. FRANK K. LEWINSKI, Akron, Ohio.
Filed October 6, 1921. Serial No. 153,818. PUBLISHED FEBRUARY 21, 1922.

156,327. LACE IN THE PIECE. I. LINDENBAUM & CO., New York, N. Y.
Filed October 3, 1921. Serial No. 153,669. PUBLISHED MARCH 28, 1922.

156,328. LACE IN THE PIECE. I. LINDENBAUM & CO., New York, N. Y.
Filed October 3, 1921. Serial No. 153,670. PUBLISHED MARCH 28, 1922.

156,329. HAMMERS. JOHN N. LINDSLEY INC., South Orange, N. J.
Filed August 5, 1921. Serial No. 151,460. PUBLISHED FEBRUARY 21, 1922.

156,330. HOSIERY. THE LOUIS STIX CO., Cincinnati, Ohio.
Filed August 11, 1921. Serial No. 151,677. PUBLISHED FEBRUARY 7, 1922.

156,331. SILK, DRAPERY, SHADE CLOTH, AND CURTAIN MATERIALS OF SILK, COTTON, WOOL, OR MIXTURES THEREOF. LOVEMAN BROTHERS, New York, N. Y.
Filed December 24, 1921. Serial No. 157,099. PUBLISHED MARCH 28, 1922.

156,332. CIGARS. HENRY LOWE CIGAR CO., Fort Worth, Tex.
Filed December 1, 1921. Serial No. 156,162. PUBLISHED MARCH 21, 1922.

156,333. FACIAL THEATRICAL MAKE-UP POWDER IN CAKE FORM. KORA M. LUBLIN, New York, N.Y., assignor to Korozone, Inc., a Corporation of New York.
Filed October 1, 1921. Serial No. 153,607. PUBLISHED JANUARY 24, 1922.

156,334. BAKING POWDER. MCCARTHY BROTHERS, San Francisco, Calif.
Filed November 1, 1921. Serial No. 154,882. PUBLISHED FEBRUARY 7, 1922.

156,335. CIGAR AND CIGARETTE HOLDERS. THOMAS H. MCCLURE, New York, N. Y.
Filed January 21, 1922. Serial No. 158,239. PUBLISHED MARCH 14, 1922.

156,336. SHOES OF LEATHER, RUBBER, AND FABRIC FOR WOMEN AND CHILDREN. JAMES MCCREERY & COMPANY, New York, N. Y.
Filed December 28, 1921. Serial No. 157,231. PUBLISHED FEBRUARY 14, 1922.

156,337. SILK-THROWING MACHINERY AND PARTS THEREOF. MCGILL & HOLFORD MANUFACTURING CO., INC., Binghamton, N. Y.
Filed October 10, 1921. Serial No. 153,943. PUBLISHED MARCH 7, 1922.

156,338. COFFEE AND TEA. MCINNES-WALKER COMPANY, Milwaukee, Wis.
Filed October 21, 1921. Serial No. 154,413. PUBLISHED FEBRUARY 28, 1922.

156,339. METAL WIRE, FERROUS AND NON-FERROUS. MACWHYTE COMPANY, Kenosha, Wis.
Filed July 28, 1921. Serial No. 151,057. PUBLISHED MARCH 7, 1922.

156,340. BARIUM SULPHATE. MAGNUSON X-RAY COMPANY, Omaha, Nebr.
Filed October 28, 1921. Serial No. 154,699. PUBLISHED FEBRUARY 7, 1922.

156,341. SILK PIECE GOODS. H. R. MALLINSON & CO. INC., New York, N. Y.
Filed January 11, 1922. Serial No. 157,771. PUBLISHED MARCH 7, 1922.

156,342. WOMEN'S HATS. IRENE MALLOY HAT COMPANY, Fort Wayne, Ind.
Filed October 16, 1920. Serial No. 138,386. PUBLISHED MARCH 7, 1922.

156,343. TOILET PREPARATIONS—NAMELY, WITCH HAZEL. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed May 9, 1921. Serial No. 147,439. PUBLISHED JANUARY 3, 1922.

156,344. NUTS IN THE RAW STATE, BOTH SHELLED AND UNSHELLED; SALTED NUTS AND ROASTED NUTS, POPCORN IN THE NATURAL STATE AND SHELLED. MARSTON-GREENING COMPANY, INC., Los Angeles, Calif.
Filed April 26, 1921. Serial No. 146,775. PUBLISHED FEBRUARY 21, 1922.

156,345. FOOD COLORS IN LIQUID AND PASTE FORMS. MARSTON-GREENING CO. INC., Los Angeles, Calif.
Filed October 6, 1921. Serial No. 153,822. PUBLISHED JANUARY 24, 1922.

156,346. BINOCULARS, FIELD GLASSES, TELESCOPES, MICROSCOPES, TRANSITS, RANGE FINDERS, OPHTHALMIC LENSES, CHROMASCOPES, AND STEREOSCOPES. GEORGE MAYERLE, San Francisco, Calif.
Filed December 5, 1921. Serial No. 156,287. PUBLISHED MARCH 7, 1922.

156,347. LIQUID SKIN TONICS. MERRITT'S SONS, Newburgh, N. Y.
Filed December 1, 1921. Serial No. 156,166. PUBLISHED FEBRUARY 28, 1922.

156,348. FISHING-ROD MOUNTINGS. WILLIAM H. MEYER, Brooklyn, N. Y.
Filed December 30, 1921. Serial No. 157,331. PUBLISHED MARCH 21, 1922.

156,349. PLASTIC COMPOSITION COMPOSED PRINCIPALLY OF GROUND CORK. MILLER FILLER CO., INC., Brockton, Mass.
Filed November 7, 1921. Serial No. 155,107. PUBLISHED FEBRUARY 21, 1922.

156,350. COTTON, SILK, LINEN GOODS, AND MIXTURES OF COTTON AND SILK AND LINEN AND SILK, IN THE PIECE. JACOB MILLER SONS & CO., Philadelphia, Pa.
Filed December 12, 1921. Serial No. 156,590. PUBLISHED MARCH 21, 1922.

156,351. BATHING CAPS, WEARING-APPAREL BELTS, AND RUBBER HOUSEHOLD GLOVES. THE MILLER RUBBER COMPANY, Akron, Ohio.
Filed October 26, 1920. Serial No. 138,822. PUBLISHED MARCH 14, 1922.

156,352. CANNED FRUITS AND VEGETABLES. G. D. MILLIGAN GROCER CO., Springfield, Mo.
Filed September 20, 1921. Serial No. 153,150. PUBLISHED FEBRUARY 14, 1922.

156,353. FOOT WASH. STEPHEN J. MILLS, Boston, Mass.
Filed October 6, 1921. Serial No. 153,819. PUBLISHED MARCH 14, 1922.

156,354. LEATHER AND FABRIC GLOVES AND HOSIERY. MOSS GLOVE & HOSIERY CO., San Francisco, Los Angeles, Oakland, Sacramento, Stockton, and Fresno, Calif., and Denver, Colo.
Filed July 12, 1921. Serial No. 150,283. PUBLISHED MARCH 7, 1922.

156,355. CANDIES. THE MOXIE COMPANY, Boston, Mass.
Filed October 25, 1921. Serial No. 154,565. PUBLISHED FEBRUARY 28, 1922.

156,356. CERTAIN NAMED TOILET PREPARATIONS. HENRI MURAOUR & CIE., Grasse, France.
Filed August 31, 1921. Serial No. 152,436. PUBLISHED FEBRUARY 21, 1922.

156,357. CERTAIN NAMED TOILET PREPARATIONS. HENRI MURAOUR & CIE., Grasse, France.
Filed August 31, 1921. Serial No. 152,437. PUBLISHED FEBRUARY 21, 1922.

156,358. SILK IN THE PIECE. MUSER BROTHERS, New York, N. Y.
Filed December 17, 1921. Serial No. 156,844. PUBLISHED MARCH 14, 1922.

156,359. COTTON NET IN THE PIECE. MUSER BROTHERS, New York, N. Y.
Filed December 17, 1921. Serial No. 156,845. PUBLISHED MARCH 7, 1922.

156,360. ARTIFICIAL SILK IN THE PIECE. MUSER BROTHERS, New York, N. Y.
Filed December 17, 1921. Serial No. 156,847. PUBLISHED MARCH 7, 1922.

156,361. PIECE GOODS OF SILK AND COTTON MIXTURES. MUSER BROTHERS, New York, N. Y.
Filed December 17, 1921. Serial No. 156,849. PUBLISHED MARCH 14, 1922.

156,362. HAIR NETS. NATIONAL COMMODITIES COMPANY, Wilmington, Del., and Philadelphia, Pa.
Filed January 6, 1922. Serial No. 157,579. PUBLISHED MARCH 7, 1922.

156,363. HAIR NETS. NATIONAL COMMODITIES COMPANY, Wilmington, Del., and Philadelphia, Pa.
Filed January 6, 1922. Serial No. 157,580. PUBLISHED MARCH 7, 1922.

156,364. COFFEE. THE NATIONAL PAPER CAN COMPANY, Milwaukee, Wis.
Filed September 19, 1921. Serial No. 153,102. PUBLISHED FEBRUARY 14, 1922.

156,365. VALVES, STEAM SEPARATORS, AND PIPE FITTINGS—NAMELY, T's, ELBOWS, CROSSES, PIPES, HEADERS, AND BENDS. NATIONAL VALVE & MANUFACTURING COMPANY, Pittsburgh, Pa.
Filed November 8, 1921. Serial No. 155,183. PUBLISHED FEBRUARY 28, 1922.

156,366. HAIR NETS. NEEMO HAIR NET CO., INC., New York, N. Y.
Filed November 26, 1921. Serial No. 155,974. PUBLISHED MARCH 7, 1922.

156,367. WOVEN COTTON PIECE GOODS—NAMELY, WHITE COTTONS. NEUSS, HESSLEIN & CO., INC., New York, N. Y.
Filed January 9, 1922. Serial No. 157,677. PUBLISHED MARCH 14, 1922.

156,368. CANDY. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass.
Filed October 31, 1921. Serial No. 154,818. PUBLISHED MARCH 14, 1922.

156,369. CANDY. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass.
Filed October 31, 1921. Serial No. 154,819. PUBLISHED MARCH 14, 1922.

156,370. CANDY. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass.
Filed October 31, 1921. Serial No. 154,822. PUBLISHED FEBRUARY 28, 1922.

156,371. STATIONERY—NAMELY, LETTER PAPER, ENVELOPES, AND WRITING TABLETS. NEW ENGLAND STATIONERY COMPANY, Boston, Mass.
Filed February 6, 1922. Serial No. 158,943. PUBLISHED MARCH 14, 1922.

156,372. STATIONERY—NAMELY, LETTER PAPER, ENVELOPES, AND WRITING TABLETS. NEW ENGLAND STATIONERY COMPANY, Boston, Mass.
Filed February 6, 1922. Serial No. 158,944. PUBLISHED MARCH 14, 1922.

156,373. HAIR NETS. NEW YORK MERCHANDISE COMPANY, New York, N. Y.
Filed December 5, 1921. Serial No. 156,291. PUBLISHED MARCH 7, 1922.

156,374. HAIR NETS. NEW YORK MERCHANDISE CO., New York, N. Y.
Filed January 10, 1922. Serial No. 157,723. PUBLISHED MARCH 7, 1922.

156,375. HAIR NETS. NEW YORK MERCHANDISE CO., New York, N. Y.
Filed January 10, 1922. Serial No. 157,725. PUBLISHED MARCH 7, 1922.

156,376. A SALVE FOR CERTAIN NAMED PURPOSES. JOHN NOVAK COMPANY, Chicago, Ill.
Filed October 28, 1921. Serial No. 154,701. PUBLISHED FEBRUARY 28, 1922.

156,377. A GENERAL MEDICINAL TONIC. THE NU-IRON LABORATORY INCORPORATED, Denver, Colo.
Filed September 30, 1921. Serial No. 153,561. PUBLISHED FEBRUARY 14, 1922.

156,378. MOTH PREVENTIVE AND IMMUNIZER IN SOLID FORM. NYANZA COLOR & CHEMICAL CO., INC., New York, N. Y.
Filed December 6, 1921. Serial No. 156,336. PUBLISHED MARCH 14, 1922.

156,379. KNITTED UNDERWEAR. OAK KNITTING COMPANY, Syracuse, N. Y.
Filed June 29, 1921. Serial No. 149,814. PUBLISHED MARCH 14, 1922.

156,380. CERTAIN NAMED MEDICINAL AND PHARMACEUTICAL PREPARATIONS. THE OWL DRUG COMPANY, San Francisco, Calif.
Filed June 22, 1920. Serial No. 134,031. PUBLISHED JANUARY 3, 1922.

156,381. A SOLUBLE LAUNDRY BLUE MOUNTED IN A STIRRER. O-ZO-ZO COMPANY INC., Boston, Mass.
Filed September 9, 1919. Serial No. 122,495. PUBLISHED FEBRUARY 7, 1922.

156,382. COTTON PIECE GOODS. PACIFIC MILLS, Lawrence and Boston, Mass.
Filed December 27, 1921. Serial No. 157,173. PUBLISHED MARCH 7, 1922.

156,383. COTTON PIECE GOODS. PACIFIC MILLS, Lawrence and Boston, Mass.
Filed December 16, 1921. Serial No. 156,801. PUBLISHED MARCH 14, 1922.

156,384. CERTAIN NAMED CHEMICAL, MEDICINAL, AND PHARMACEUTICAL PREPARATIONS. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed September 30, 1921. Serial No. 153,564. PUBLISHED FEBRUARY 21, 1922.

156,385. HAIR TONIC. ALICE L. PARKER, New York, N. Y.
Filed September 20, 1921. Serial No. 153,158. PUBLISHED JANUARY 24, 1922.

156,386. SODIUM-BICARBONATE TABLETS. THE E. L. PATCH CO., Stoneham, Mass.
Filed March 2, 1921. Serial No. 144,249. PUBLISHED JANUARY 3, 1922.

156,387. ARTICLES OF STATIONERY ADAPTED TO HOLD WRITING PAPER AND ALSO HAVING WRITING SURFACES. P. L. PEASE & COMPANY, INC., Lancaster, N. Y.
Filed January 23, 1922. Serial No. 158,328. PUBLISHED MARCH 14, 1922.

156,388. COTTON PIECE GOODS. J. C. PENNEY COMPANY, Salt Lake City, Utah, and New York, N. Y.
Filed January 11, 1922. Serial No. 157,774. PUBLISHED MARCH 21, 1922.

156,389. SEEDS — NAMELY, GRASS, FIELD, ALFALFA, CLOVER, TIMOTHY, BLUE GRASS, RED TOP, MILLET, AND SUDAN GRASS. J. G. PEPPARD SEED CO., Kansas City, Mo.
Filed January 11, 1922. Serial No. 157,773. PUBLISHED MARCH 14, 1922.

156,390. HAIR DYE. PERFECTO CHEMICAL CO., INC., New York, N. Y.
Filed October 1, 1921. Serial No. 153,621. PUBLISHED JANUARY 24, 1922.

156,391. LACE AND EMBROIDERY ARTICLES—NAMELY, DOILIES AND CENTERPIECES. PERLMANN, SCHAL & STERN, New York, N. Y.
Filed November 8, 1921. Serial No. 155,184. PUBLISHED MARCH 7, 1922.

156,392. LACE AND EMBROIDERY ARTICLES—NAMELY, DOILIES AND CENTERPIECES. PERLMANN, SCHAL & STERN, New York, N. Y.
Filed November 8, 1921. Serial No. 155,186. PUBLISHED MARCH 7, 1922.

156,393. A CHEMICAL ARTICLE OR SUBSTANCE USED IN GIVING SELF-RISING QUALITIES TO FLOUR. PHOSPHATE PRODUCTS CORPORATION, Richmond, Va.
Filed October 10, 1921. Serial No. 153,949. PUBLISHED JANUARY 24, 1922.

156,394. INDOOR BASEBALL GAME. PIROXLOID PRODUCTS CORPORATION, New York, N. Y.
Filed January 9, 1922. Serial No. 157,687. PUBLISHED MARCH 21, 1922.

156,395. MEDICINAL PREPARATION FOR GLANDULAR INSUFFICIENCY. JOSEPH A. PIUMA, Los Angeles, Calif.
Filed November 3, 1921. Serial No. 154,991. PUBLISHED FEBRUARY 28, 1922.

156,396. CERTAIN NAMED MEDICINAL PREPARATIONS. THE PRONTIC DRUGGISTS, INC., Baltimore, Md.
Filed July 8, 1921. Serial No. 150,153. PUBLISHED FEBRUARY 28, 1922.

156,397. VACCINES AND SERUMS FOR CERTAIN NAMED USES. PURITY BIOLOGICAL LABORATORIES, Sioux City, Iowa.
Filed March 4, 1920. Serial No. 129,245. PUBLISHED FEBRUARY 21, 1922.

156,398. RADIATOR-SEALING MATERIAL. THE RADE RITE MFG. CO., Holyoke, Mass.
Filed October 20, 1921. Serial No. 154,381. PUBLISHED FEBRUARY 21, 1922.

156,399. TONICS AND BLOOD-BUILDING PREPARATIONS. REINSCHILD CHEMICAL CO., New York, N. Y.
Filed November 12, 1921. Serial No. 155,321. PUBLISHED FEBRUARY 28, 1922.

156,400. BABY BATH ROBES, BABY DRESSES, AND BABY BUNTING OR WRAP. RELIABLE KIDDY WEAR COMPANY, INC., New York, N. Y.
Filed March 25, 1921. Serial No. 145,238. PUBLISHED MARCH 14, 1922.

156,401. LEATHER GLOVES. REYNIER & CIE., Grenoble, France, assignor to Etablissements Reynier, Grenoble, France, a Corporation of France.
Filed February 10, 1921. Serial No. 143,405. PUBLISHED MARCH 14, 1922.

156,402. LEATHER GLOVES. REYNIER & CIE., Grenoble, France, assignor to Etablissements Reynier, Grenoble, France, a Corporation of France.
Filed February 10, 1921. Serial No. 143,406. PUBLISHED MARCH 7, 1922.

156,403. LEATHER GLOVES. REYNIER & CIE., Grenoble, France, assignor to Etablissements Reynier, Grenoble, France, a Corporation of France.
Filed February 10, 1921. Serial No. 143,407. PUBLISHED MARCH 7, 1922.

156,404. CARD-FILING SYSTEMS. WILLIAM A. RINGLER, Philadelphia, Pa., assignor to Globe Wernicke Co., Cincinnati, Ohio, a Corporation of Ohio.
Filed January 9, 1922. Serial No. 157,692. PUBLISHED MARCH 14, 1922.

156,405. CHAMBRAYS AND CHEVIOTS IN THE PIECE. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va.
Filed December 6, 1921. Serial No. 156,341. PUBLISHED MARCH 21, 1922.

156,406. CIGARS. MAURICE ROSENTHAL, San Francisco, Calif.
Filed December 21, 1920. Serial No. 141,393. PUBLISHED MARCH 21, 1922.

156,407. SILKS IN THE PIECE. LOUIS ROESSEL & CO. INC., New York, N. Y.
Filed December 9, 1921. Serial No. 156,504. PUBLISHED MARCH 7, 1922.

156,408. BOOTS AND SHOES OF A COMBINATION OF LEATHER, RUBBER, AND FABRIC. RUBBERHIDE COMPANY, Boston, Mass.
Filed November 19, 1920. Serial No. 139,871. PUBLISHED MARCH 14, 1922.

156,409. COMBINATIONS, BODICES, SPENCERS, VESTS, AND PANTS, NIGHTDRESSES, KNICKERS, AND SKIRTS, BEING UNDERWEAR. SALOMON STERN LD., London, England.
Filed December 4, 1920. Serial No. 140,614. PUBLISHED MARCH 7, 1922.

156,410. LADIES' HATS. MAURICE SALTZMAN, New York, N. Y.
Filed July 13, 1921. Serial No. 150,336. PUBLISHED MARCH 14, 1922.

156,411. TOOTH PASTE. THE SAN APROVE COMPANY, Detroit, Mich.
Filed October 14, 1921. Serial No. 154,094. PUBLISHED FEBRUARY 21, 1922.

156,412. BRUSHES—NAMELY, HAIR, BATH, CLOTHES, HAND-SCRUBBING, AND SHAMPOO BRUSHES. SANITAX BRUSH COMPANY, Chicago, Ill.
Filed January 21, 1922. Serial No. 158,258. PUBLISHED MARCH 21, 1922.

156,413. HAIRCLOTH. HENRY M. SCHADEWALD, Philadelphia, Pa.
Filed December 14, 1921. Serial No. 156,723. PUBLISHED MARCH 14, 1922.

156,414. TOILET CREAM. SEM-PRAY JO-VE-NAY COMPANY, Grand Rapids, Mich.
Filed September 17, 1921. Serial No. 153,054. PUBLISHED FEBRUARY 14, 1922.

156,415. TOILET CREAM. SEM-PRAY JO-VE-NAY COMPANY, Grand Rapids, Mich.
Filed September 17, 1921. Serial No. 153,055. PUBLISHED FEBRUARY 14, 1922.

156,416. FOOT EASE PREPARATION IN POWDERED FORM. SHARP & DOHME, Baltimore, Md.
Filed April 6, 1921. Serial No. 145,802. PUBLISHED MARCH 14, 1922.

156,417. SHOES, BOOTS, AND SLIPPERS OF DIFFERENT MATERIALS. SHOETERIA SHOE COMPANY, Salt Lake City, Utah.
Filed April 9, 1921. Serial No. 145,972. PUBLISHED MARCH 14, 1922.

156,418. COLLARS AND CUFFS, GUIMPES, VESTEES, RUFFS, JABOTS, AND CHEMISETTES. G. SIDENBERG & CO., New York, N. Y.
Filed June 30, 1921. Serial No. 149,867. PUBLISHED MARCH 14, 1922.

156,419. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y.
Filed November 13, 1921. Serial No. 155,388. PUBLISHED MARCH 28, 1922.

156,420. TOOTH POWDERS AND TOILET CREAMS. SIMMONS & HAMMOND MANUFACTURING CO., Portland, Me.
Filed September 27, 1919. Serial No. 123,224. PUBLISHED JANUARY 18, 1921.

156,421. SILKS IN THE PIECE. WILLIAM SKINNER & SONS, New York, N. Y., and Holyoke, Mass.
Filed February 4, 1921. Serial No. 143,191. PUBLISHED MARCH 28, 1922.

156,422. PLIERS. SMITH & HEMENWAY COMPANY, INC., New York, N. Y.
Filed November 3, 1921. Serial No. 155,001. PUBLISHED MARCH 7, 1922.

156,423. COTTON GOODS IN THE PIECE. SMITH, HOGG & CO., New York, N. Y.
Filed December 27, 1921. Serial No. 157,183. PUBLISHED MARCH 14, 1922.

156,424. A COLD-CREAM PREPARATION. NELLIE V. SMITH, New York, N. Y.
Filed April 15, 1921. Serial No. 146,238. PUBLISHED JANUARY 3, 1922.

156,425. A LIQUID PREPARATION FOR ALL SKIN DISEASES. EMMET SNIPES, Searcy, Ark.
Filed October 8, 1921. Serial No. 153,897. PUBLISHED FEBRUARY 28, 1922.

156,426. LOCAL ANESTHETIC. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland.
Filed November 2, 1921. Serial No. 154,936. PUBLISHED FEBRUARY 28, 1922.

156,427. OXYTOCIC. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland.
Filed November 2, 1921. Serial No. 154,937. PUBLISHED FEBRUARY 28, 1922.

156,428. TABLETS FOR DISSOLVING AND USED IN THE TREATMENT OF CATARACTS OF THE EYE. ADRIÁN GARDUÑO Y SOLÓRZANO, Mexico, Mexico.
Filed September 27, 1921. Serial No. 153,395. PUBLISHED MARCH 7, 1922.

156,429. HAIR TONIC, SHAMPOO, AND AN EXTERNAL LINIMENT FOR CERTAIN NAMED USES. GEORGE SPEAR, Paterson, N. J.
Filed October 27, 1921. Serial No. 154,669. PUBLISHED FEBRUARY 28, 1922.

156,430. OIL OF MYRBANE, BENZOL, XYLOL, ETHER, TOLUOL, COSMETIC OIL, AND PETROLATUM. STANDARD OIL COMPANY, San Francisco, Calif.
Filed November 15, 1920. Serial No. 139,683. PUBLISHED MARCH 14, 1922.

156,431. ULTRAMARINE BLUE. THE STANDARD ULTRAMARINE CO., Huntington, W. Va.
Filed September 28, 1921. Serial No. 153,478. PUBLISHED FEBRUARY 7, 1922.

156,432. COTTON BATTING, PARTICULARLY GLAZED COTTON WADDING. THE STEARNS & FOSTER COMPANY, Lockland, Ohio.
Filed August 4, 1921. Serial No. 151,432. PUBLISHED MARCH 14, 1922.

156,433. INFANTS' SOFT-SOLE SHOES MADE WHOLLY OR IN PART OF LEATHER AND CLOTH. STEVENS SOFT SOLE SHOE CO., Salem, Mass.
Filed December 7, 1921. Serial No. 156,420. PUBLISHED FEBRUARY 14, 1922.

156,434. GOLF BALLS. ST. MUNGO MANUFACTURING COMPANY OF AMERICA, Newark, N. J.
Filed January 21, 1922. Serial No. 158,257. PUBLISHED MARCH 7, 1922.

156,435. REMEDY FOR WEAKNESS, ANÆMIA, IMPAIRED NUTRITION, AND MALASSIMULATION. THE STOUT MEDICINE COMPANY, Baltimore, Md.
Filed October 8, 1921. Serial No. 153,896. PUBLISHED JANUARY 24, 1922.

156,436. SOLE LEATHER AND SIDE LEATHER. STRAUSS LEATHER COMPANY, Pittsburgh, Pa.
Filed September 27, 1921. Serial No. 153,417. PUBLISHED JANUARY 31, 1922.

156,437. SOLE LEATHER AND SIDE LEATHER. STRAUSS LEATHER COMPANY, Pittsburgh, Pa.
Filed September 27, 1921. Serial No. 153,418. PUBLISHED JANUARY 31, 1922.

156,438. WOVEN AND KNITTED SILK PIECE GOODS. MAX STRAUSS, New York, N. Y.
Filed December 24, 1921. Serial No. 157,108. PUBLISHED MARCH 14, 1922.

156,439. GERMICIDAL DENTAL MEDICINES AND TOOTH PASTE. LOTHAR E. SWEITZER, Milwaukee, Wis.
Filed October 31, 1921. Serial No. 154,851. PUBLISHED FEBRUARY 21, 1922.

156,440. TOILET PREPARATIONS — VIZ, FACE, TOILET, NURSERY, AND TALCUM POWDERS, ROUGE AND COMPACT, PERFUMES, TOILET CREAMS. IDA JANE TETLOW, Philadelphia, Pa.
Filed October 17, 1921. Serial No. 154,245. PUBLISHED JANUARY 24, 1922.

156,441. BOILER COMPOUND. THORNTON HOPKINS, Nashville, Tenn.
Filed July 6, 1920. Serial No. 134,567. PUBLISHED FEBRUARY 21, 1922.

156,442. SEMILAXATIVE TABLETS OR POWDERS. WALTER A. TICHENOR, Brooklyn, N. Y.
Filed October 15, 1921. Serial No. 154,160. PUBLISHED FEBRUARY 21, 1922.

156,443. TOBACCO EXTRACT USED FOR SAUCING OR FLAVORING TOBACCO. TRAHERN TOBACCO CO., INC., Clarksville, Tenn.
Filed September 12, 1921. Serial No. 152,872. PUBLISHED MARCH 21, 1922.

156,444. HAIR NETS. TRIMOUNT TRADING COMPANY, Boston, Mass.
Filed December 27, 1921. Serial No. 157,190. PUBLISHED MARCH 14, 1922.

156,445. COTTON GOODS IN THE PIECE. TRION COMPANY, Trion, Ga.
Filed December 27, 1921. Serial No. 157,186. PUBLISHED MARCH 14, 1922.

156,446. COTTON GOODS IN THE PIECE. TRION COMPANY, Trion, Ga.
Filed December 27, 1921. Serial No. 157,188. PUBLISHED MARCH 14, 1922.

156,447. COTTON PIECE GOODS. TRIPPE, BARKER & CO., New York, N. Y.
Filed January 21, 1922. Serial No. 158,266. PUBLISHED MARCH 21, 1922.

156,448. RAINCOATS. FRANCIS W. TULLY, Boston, Mass.
Filed August 9, 1921. Serial No. 151,600. PUBLISHED FEBRUARY 7, 1922.

156,449. SHIRTINGS IN THE PIECE WOVEN FROM SILK OR COTTON FIBER OR MIXTURES OF THE SAME. TURNER & WALLS, New York, N. Y.
Filed December 1, 1921. Serial No. 156,182. PUBLISHED MARCH 7, 1922.

156,450. ARTIFICIAL BAIT. ORLEY C. TUTTLE, Old Forge, N. Y.
Filed February 6, 1922. Serial No. 158,953. PUBLISHED MARCH 14, 1922.

156,451. TOY CIRCUS. SIDNEY J. TWYMAN, Dayton, Ohio.
Filed January 14, 1922. Serial No. 157,968. PUBLISHED MARCH 14, 1922.

156,452. WOVEN TEXTILE FABRICS IN THE PIECE USED AS FOUNDATION MATERIAL FOR ART NEEDLEWORK. BERNHARD ULMAN CO. INC., New York, N. Y.
Filed November 23, 1921. Serial No. 155,839. PUBLISHED MARCH 14, 1922.

156,453. CALCINED GYPSUM, PLASTER OF PARIS AND WALL PLASTER. UNITED STATES GYPSUM COMPANY, Chicago, Ill.
Filed December 14, 1921. Serial No. 156,726. PUBLISHED MARCH 14, 1922.

156,454. CERTAIN ARTICLES OF CLOTHING. UNITED TURKEY RED COMPANY, LIMITED, Glasgow, Scotland.
Filed June 14, 1921. Serial No. 149,157. PUBLISHED MARCH 7, 1922.

156,455. METAL COCKS. VERBAND SCHWEIZ ARMATURENFABRIKEN, BERN, Berne, Switzerland.
Filed September 15, 1921. Serial No. 152,969. PUBLISHED FEBRUARY 28, 1922.

156,456. HEELS, SOLES, COMPOSED ENTIRELY OR PARTLY OF RUBBER. VICTORY RUBBER COMPANY, Seattle, Wash.
Filed September 6, 1921. Serial No. 152,662. PUBLISHED MARCH 14, 1922.

156,457. CERTAIN NAMED TOILET PREPARATIONS. V. VIVAUDOU, INC., New York, N. Y.
Filed November 10, 1921. Serial No. 155,285. PUBLISHED FEBRUARY 21, 1922.

156,458. SMOKING TOBACCO, CHEWING TOBACCO, CIGARS, CIGARETTES, AND STOGIES. V. VIVAUDOU, INC., New York, N. Y.
Filed February 6, 1922. Serial No. 158,958. PUBLISHED MARCH 14, 1922.

156,459. FLOOR COVERINGS AND FURNITURE-TOP COVERINGS MADE CHIEFLY OF LINOLEUM OR LIKE MATERIAL. WAGEMAKER COMPANY, Grand Rapids, Mich.
Filed January 9, 1922. Serial No. 157,705. PUBLISHED MARCH 14, 1922.

156,460. COTTON PIECE GOODS. WARE SHOALS MFG. CO., Ware Shoals, S. C.
Filed December 27, 1921. Serial No. 157,201. PUBLISHED MARCH 14, 1922.

156,461. REMEDY FOR MALARIA. WATERMAN MANUFACTURING COMPANY, Yarmouth, Me.
Filed November 9, 1921. Serial No. 155,245. PUBLISHED FEBRUARY 28, 1922.

156,462. COTTON SEED. FERRIS D. WATSON, Waxahachie, Tex.
Filed October 15, 1921. Serial No. 154,165. PUBLISHED JANUARY 3, 1922.

156,463. A PREPARATION FOR ULCERATED GUMS AND INFECTIONS OF THE MOUTH. JOHN D. WATTERSON, Kalida, Ohio.
Filed June 14, 1920. Serial No. 133,720. PUBLISHED FEBRUARY 8, 1921.

156,464. COTTON DUCK OR CANVAS. WELLINGTON, SEARS & COMPANY, Boston, Mass.
Filed November 10, 1921. Serial No. 155,290. PUBLISHED MARCH 7, 1922.

156,465. TOILET PAPER. WHITE-WASHBURNE COMPANY, INC., Hinsdale, N. H.
Filed January 30, 1922. Serial No. 158,659. PUBLISHED MARCH 14, 1922.

156,466. TOILET PAPER. WHITE-WASHBURNE COMPANY, INC., Hinsdale, N. H.
Filed January 30, 1922. Serial No. 158,661. PUBLISHED MARCH 14, 1922.

156,467. TOILET PAPER. WHITE-WASHBURNE COMPANY, INC., Hinsdale, N. H.
Filed February 2, 1922. Serial No. 158,807. PUBLISHED MARCH 14, 1922.

156,468. COTTON PIECE GOODS. WHITTENTON MANUFACTURING COMPANY, Taunton, Mass.
Filed January 18, 1922. Serial No. 158,103. PUBLISHED MARCH 21, 1922.

156,469. SILK GOODS IN THE PIECE. WILLIAM E. WIENER, INC., New York, N. Y.
Filed December 23, 1921. Serial No. 157,088. PUBLISHED MARCH 7, 1922.

156,470. AMMONIA AND JAVELLE WATER. THE WILBERT PRODUCTS CO., New York, N. Y.
Filed April 18, 1921. Serial No. 146,346. PUBLISHED MARCH 14, 1922.

156,471. COMPOSITION PACKING COMPOSED OF CANVAS AND RUBBER. WILLIAMSPORT DEVELOPMENT COMPANY, Williamsport, Pa.
Filed October 8, 1921. Serial No. 153,908. PUBLISHED FEBRUARY 28, 1922.

156,472. CERTAIN NAMED TOILET PREPARATIONS. GEORGE A. WILSON, Jr., San Francisco, Calif.
Filed October 18, 1921. Serial No. 154,290. PUBLISHED JANUARY 24, 1922.

156,473. TEMPERATURE-REGISTERING DEVICES FOR READING TEMPERATURES FROM REMOTE POINTS. FRANK D. WINDELL, Philadelphia, Pa.
Filed September 28, 1921. Serial No. 153,488. PUBLISHED FEBRUARY 21, 1922.

156,474. CURLED HAIR FOR MATTRESSES, CUSHIONS, AND SIMILAR PRODUCTS. PETER WOLL AND SONS MFG. CO., Philadelphia, Pa.
Filed April 5, 1921. Serial No. 145,759. PUBLISHED JANUARY 31, 1922.

156,475. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS FOR MAKING THE SAME. WOOD & SELICK, INC., New York, N. Y.
Filed January 21, 1922. Serial No. 158,274. PUBLISHED MARCH 7, 1922.

156,476. WIRE BRUSHES. WORCESTER BRUSH AND SCRAPER CO., Worcester, Mass.
Filed October 15, 1921. Serial No. 154,164. PUBLISHED MARCH 21, 1922.

156,477. CERTAIN ARTICLES OF CLOTHING. WORTH, INC., New York, N. Y.
Filed October 23, 1920. Serial No. 138,736. PUBLISHED OCTOBER 18, 1921.

156,478. AUTOMOTIVE TRUCKS AND TRAILERS. THE YALE & TOWNE MFG. CO., Stamford, Conn.
Filed November 30, 1921. Serial No. 156,127. PUBLISHED FEBRUARY 21, 1922.

156,479. TRANSITS AND LEVELS. YOUNG & SONS, INC., Hoboken, N. J.
Filed November 17, 1921. Serial No. 155,531. PUBLISHED FEBRUARY 21, 1922.

156,480. TRANSITS AND LEVELS. YOUNG & SONS, INC., Hoboken, N. J.
Filed November 17, 1921. Serial No. 155,532. PUBLISHED FEBRUARY 21, 1922.

156,481. PREPARATION FOR THE EXTERMINATION OF VERMIN. THE ZO-NO COMPANY, Cleveland, Ohio.
Filed October 10, 1921. Serial No. 153,965. PUBLISHED FEBRUARY 21, 1922.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

JUNE 20, 1922.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

156,482. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CROFTS & REED CO., Chicago, Ill. Filed Mar. 3, 1922. Serial No. 160,113.

NONE-SO-GOOD

Particular description of goods.—Laundry Soap.
Claims use since February, 1919.

156,483. (CLASS 33. GLASSWARE.) ECONOMY TUMBLER CO., Morgantown, W. Va. Filed Mar. 23, 1922. Serial No. 161,123.

TWO-TONE

Particular description of goods.—Glassware—viz, Tumblers, Stemware, Jugs, and Decanters.
Claims use since Dec. 20, 1920.

156,484. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEPH KAUFMAN, New York, N. Y. Filed Dec. 13, 1920. Serial No. 140,998.

HAMILTON

Particular description of goods.—Breakfast Cereal Foods.
Claims use since 1917.

156,485. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) MALT-DIASTASE COMPANY, New York, N. Y. Filed Feb. 20, 1922. Serial No. 159,605.

STANDARD

Particular description of goods.—Liquid and Concentrated Malt Extracts.
Claims use since 1897.

156,486. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MINNEAPOLIS DRUG COMPANY, Minneapolis, Minn. Filed Jan. 25, 1922. Serial No. 158,429.

DEXTER

Particular description of goods.—Certain Named Brushes, Brooms, and Powder Puffs.
Claims use since 1915.

156,487. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NAFZIGER BAKING COMPANY, Kansas City, Mo. Filed Nov. 8, 1920. Serial No. 139,366.

Certified

Particular description of goods.—Bread.
Claims use since Oct. 5, 1920.

156,488. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INC., New York, N. Y. Filed Mar. 3, 1921. Serial No. 144,294.

ERIE

Particular description of goods.—Coal-Tar Dyestuffs.
Claims use since June 18, 1901.

156,489. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) NEW STANDARD RUBBER CO. INC., Los Angeles, Calif. Filed Dec. 7, 1920. Serial No. 140,745.

DUBBLE-WEAR

Particular description of goods.—Retread Strips for Automobile Tires.
Claims use since Aug. 20, 1920.

156,490. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NORTHWESTERN HIDE & FUR CO, Minneapolis, Minn. Filed Mar. 20, 1919. Serial No. 116,751.

SUREDEATH

Particular description of goods.—Poison for Animals.
Claims use since on or about Sept. 1, 1894.

156,491. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) REISS-PREMIER PIPE COMPANY, Chicago, Ill. Filed Mar. 17, 1922. Serial No. 160,833.

WALES

Particular description of goods.—Smoking Pipes and Cases for Pipes.
Claims use since about January, 1920.

156,492. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SOUTH BEND WHOLESALE GROCERY COMPANY, South Bend, Ind. Filed Aug. 27, 1921. Serial No. 152,285.

BEST EVER

Particular description of goods.—Table Sirup, Mustard, Peanut Butter, Evaporated Milk, Coffee, Flour, Canned Vegetables and Fish.
Claims use since 1902.

156,493. (CLASS 37. PAPER AND STATIONERY.) STRATHMORE PAPER COMPANY, West Springfield, Mass. Filed Oct. 21, 1919. Serial No. 124,058.

Blandford

Particular description of goods.—Wedding, Ledger, Photo-Mount, Book, Cover, Correspondence, and Printing Papers; Paper and Cardboard for Picture and Photograph Mats, and Cardboard.
Claims use since 1913.

156,494. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) STROUD & CO., Omaha, Nebr. Filed Mar. 31, 1922. Serial No. 161,584.

BIG RED

Particular description of goods.—Dump Wagons.
Claims use since 1911.

156,495. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) STROUD & CO., Omaha, Nebr. Filed Mar. 31, 1922. Serial No. 161,583.

LITTLE RED

Particular description of goods.—Dump Wagons.
Claims use since 1901.

156,496. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) EDW. K. TRYON COMPANY, Philadelphia, Pa Filed Jan. 12, 1922. Serial No. 157,860.

Dowagiac

Particular description of goods.—Fishing Lines.
Claims use since Oct. 1, 1912.

156,497. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALBERT G. WISWELL, Chester, Pa., and Wilmington, Del. Filed Nov. 3, 1921. Serial No. 155,003.

MEDICUS

Particular description of goods.—Toothache Liquid, Toothache Wax; Ointment, Both Antiseptic and Anæsthetic.
Claims use since Nov. 1, 1920.

TRADE-MARK REGISTRATIONS RENEWED.

19,196. SEWING NEEDLES. Registered March 17, 1891. GEORG PRINTZ & Co., Aachen, Prussia, Germany. Renewed March 17, 1921.

20,561. BRANDY. Registered January 5, 1892. E. RÉMY MARTIN & Co., Rouillac, France. Renewed January 5, 1922.

20,844. LARD. Registered March 15, 1892. JERSEY CITY PACKING COMPANY, Jersey City, N. J. Renewed March 15, 1922.

20,942. CANNED VEGETABLES AND FISH. Registered April 5, 1892. SEEMAN BROTHERS, New York, N. Y. Renewed March 17, 1922.

20,967. CENTRIFUGAL CREAMERS. Registered April 12, 1892. AKTIEBOLAGET SEPARATOR, Stockholm, Sweden. Renewed April 12, 1922.

20,968. CENTRIFUGAL CREAMERS. Registered April 12, 1892. AKTIEBOLAGET SEPARATOR, Stockholm, Sweden. Renewed April 12, 1922.

21,051. A REMEDY FOR THE CURE OF HEADACHE, COLDS, NEURALGIA, OR SIMILAR AILMENTS. Registered April 26, 1892. CHARLES B. KINGSLEY, Northampton, Mass. Renewed April 26, 1922.

21,138. WRITING PAPER AND ENVELOPES. Registered May 17, 1892. GEORGE B. HURD & Co., New York, N. Y. Renewed May 17, 1922.

21,208. A SAUCE FOR MEATS, FISH, GAME, GRAVIES, AND SOUP. Registered May 31, 1892. LEA & PERRINS, Worcester, England. Renewed May 31, 1922.

21,249. HORSE BLANKETS OR COVERS. Registered June 7, 1892. BURLINGTON BLANKET COMPANY, Burlington, Wis. Renewed June 7, 1922.

21,549. A REMEDY FOR RHEUMATISM. Registered August 2, 1892. PURINTON MEDICINE Co., Detroit, Mich. Renewed August 2, 1922.

21,553. A LIQUID TONIC. Registered August 2, 1892. MONRAD J. OLSEN, Des Moines, Iowa. Renewed August 2, 1922.

21,571. ALL SPIRITUOUS AND FERMENTED LIQUORS EXCEPT BRANDY. Registered August 9, 1892. J. W. NICHOLSON & Co., London, England. Renewed August 9, 1922.

21,688. SAWS. Registered August 23, 1892. SHURLY & DIETRICH, Galt, Canada. Renewed August 23, 1922.

21,689. SAWS. Registered August 23, 1892. SHURLY & DIETRICH, Galt, Canada. Renewed August 23, 1922.

21,745. COTTON YARN. Registered September 13, 1892. SANFORD SPINNING COMPANY, Fall River, Mass. Renewed September 13, 1922.

21,792. BAKING POWDER. Registered September 27, 1892. CALUMET BAKING POWDER COMPANY, Chicago, Ill. Renewed September 27, 1922.

21,856. CANNED FISH, FRUITS, AND VEGETABLES. Registered October 11, 1892. CHRISTIAN L. BENSON, Chicago, Ill. Renewed October 11, 1922.

21,863. FISH, OYSTERS, AND OTHER SHELL FISH PACKED IN TIN AND GLASS. Registered October 11, 1892. HERMAN RUGE & SONS, Apalachicola, Fla. Renewed October 11, 1922.

21,924. CERTAIN NAMED RUBBER AND LEATHER GOODS. Registered November 1, 1892. PAGE BELTING COMPANY, Concord, N. H. Renewed November 1, 1922.

21,926. PILLS. Registered November 1, 1892. MAURICE LEPRINCE, Bourges, France. Renewed November 1, 1922.

22,090. HATS AND BONNETS FOR LADIES, MISSES, AND YOUNG BOYS, AND TRIMMINGS THEREFOR. Registered November 29, 1892. CHARLOTTE E. TAYLOR, New York, N. Y.; Chicago, Ill.; Boston, Mass., and Philadelphia, Pa. Renewed November 29, 1922.

TRADE-MARK REGISTRATIONS CANCELED.

9,077. MACHINE-OILS. WILLIAM MCBAIN, Toronto, Ontario, Canada. Registered January 31, 1882. Canceled May 24, 1922.

87,629. CANDLES. HOWE & FRENCH, Boston, Mass. Registered July 30, 1912. Canceled May 24, 1922.

110,974. RIBBONS. BEST & JACOBY, New York, N. Y. Registered June 20, 1916. Canceled April 29, 1922.

136,848. MECHANICAL SHOVELS. LAKE SUPERIOR LOADER CO., Duluth, Minn. Registered November 9, 1920. Canceled May 24, 1922.

138,650. CANNED FRUITS—NAMELY, CANNED PINEAPPLES. KAUAI FRUIT & LAND CO., Honolulu, Territory of Hawaii. Registered January 4, 1921. Canceled December 16, 1921.

139,182. CANDY. PACKAGE CONFECTIONERY COMPANY, Boston, Mass. Registered January 25, 1921. Canceled May 24, 1922.

143,705. VEHICLE WHEELS. THE PACKARD ENGINEERING COMPANY, Cleveland, Ohio, assignor to George W. Smith & Company, Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Registered June 7, 1921. Canceled May 26, 1922.

143,825. COTTON PIECE GOODS. PACIFIC MILLS, Lawrence and Boston, Mass. Registered June 7, 1921. Canceled March 14, 1922.

146,707. LAUNDRY WASHING MACHINES AND WRINGERS. CENTRAL MANUFACTURING COMPANY, St. Louis, Mo. Registered September 20, 1921. Canceled May 26, 1922.

149,597. WOVEN WICKS. NATIONAL ENAMELING & STAMPING CO., Milwaukee, Wis., and Baltimore, Md. Registered December 13, 1921. Canceled May 24, 1922.

LABELS

REGISTERED JUNE 20, 1922.

24,481.—*Title:* "OVOTONE." (For Endocrine Gland Tablets.) Dr. J. M. ABELIO, Denver, Colo. Filed January 31, 1922.

24,482.—*Title:* "SAFFIC." (For Packages or Cartons Containing Fruit.) AMERICAN FRESH FRUIT COMPANY, New York, N. Y. Filed April 25, 1922.

24,483.—*Title:* "BARE." (For Fresh Grapes.) JOHN V. BARE, doing business as the Bare Fruit Co., Lodi, Calif. Filed May 9, 1922.

24,484.—*Title:* "CUB BRAND." (For Fresh Grapes.) JOHN V. BARE, doing business as the Bare Fruit Co., Lodi, Calif. Filed May 9, 1922.

24,485.—*Title:* "BEACON." (For Apples.) BEACON TRADING COMPANY, Seattle, Wash. Filed May 4, 1922.

24,486.—*Title:* "B & P." (For Egyptian Cigarettes.) SAMUEL BENADERET, San Francisco, Calif. Filed May 4, 1922.

24,487.—*Title:* "BEAVER." (For Cigars.) BRESLIN & CAMPBELL, INC., New York, N. Y. Filed April 22, 1922.

24,488.—*Title:* "SIERRA CLUB." (For Ginger Ale.) HENRY-BROWN CO. INC., Glendale, Calif. Filed May 4, 1922.

24,489.—*Title:* "WOMEN'S APPAREL IN MISSES PLUS SIZES." (For Women's Apparel.) LANE BRYANT, New York, N. Y. Filed March 8, 1922.

24,490.—*Title:* "JIM-DANDY BREAD." (For Bread.) CENTURY BISCUIT CO., Indianapolis, Ind. Filed March 9, 1922.

24,491.—*Title:* "TESTED AND APPROVED USED AUTOMOBILES." (For Used Automobiles.) CHICAGO AUTOMOBILE TRADE ASSOCIATION, Chicago, Ill. Filed April 27, 1922.

24,492.—*Title:* "ROYALL'S FRENCH DRESSING." (For Bottles Containing Salad Dressing.) CLIWILL FOOD PRODUCTS, INC., New York, N. Y. Filed March 7, 1922.

24,493.—*Title:* "ABBA-ZABA." (For Candies.) COLBY & MCDERMOTT, Los Angeles, Calif. Filed February 14, 1922.

24,494.—*Title:* "CREMINTS." (For Packages of Candy.) CREMINT CO., New York, N. Y. Filed January 6, 1922.

24,495.—*Title:* "DIAMOND D." (For Flour.) THE J. W. DENIO MILLING COMPANY, Sheridan, Wyo. Filed April 22, 1922.

24,496.—*Title:* "WHEATSBEST." (For Flour.) THE J. W. DENIO MILLING COMPANY, Sheridan, Wyo. Filed April 22, 1922.

24,497.—*Title:* "DEXTER'S WHOLE WHEAT BREAD." (For Bread.) THE DEXTER BAKING COMPANY, Waterbury, Conn. Filed May 9, 1922.

24,498.—*Title:* "POLLY BREAD." (For Bread.) DRAGON PAPER MFG. CO., INC., Long Island City, N. Y. Filed May 1, 1922.

24,499.—*Title:* "PALATABLE TABLETS VITA YEAST." (For Packages Containing a Food Tonic.) THE DRUG PRODUCTS CO. INC., Long Island City, N. Y. Filed February 27, 1922.

24,500.—*Title:* "PALATABLE GRANULES VITA-YEAST." (For Packages Containing a Food Tonic.) THE DRUG PRODUCTS CO. INC., Long Island City, N. Y. Filed February 27, 1922.

24,501.—*Title:* "SUR-FA-SAVE." (For Paints.) ECLIPSE WHITE LEAD & COLOR CO., Brooklyn, N. Y. Filed May 8, 1922.

24,502.—*Title:* "BEN BEY." (For Cigars.) NATHAN ELSON, Chicago, Ill. Filed January 30, 1922.

24,503.—*Title:* "OH! SWEETIE." (For Candy.) ENGLEWOOD CANDY MFG. CO., Chicago, Ill. Filed October 8, 1921.

24,504.—*Title:* "GOLDWIN." (For Brooms.) GARDNER BROOM CO., Amsterdam, N. Y. Filed March 3, 1922.

24,505.—*Title:* "WHITE ROSE." (For Brooms.) GARDNER BROOM CO., Amsterdam, N. Y. Filed March 3, 1922.

24,506.—*Title:* "MORNING GLORY." (For Brooms.) GARDNER BROOM CO., Amsterdam, N. Y. Filed March 3, 1922.

24,507.—*Title:* "FLUFFY PUFF." (For a Confection Containing Ice Cream Enclosed Within Pastry.) GEORGE H. GARNET, Allentown, Pa. Filed April 6, 1922.

24,508.—*Title:* "VIRGIN OLIVE OIL." (For Olive Oil.) ABRAHAM GASH, New York, N. Y. Filed April 26, 1922.

24,509.—*Title:* "GORHAM PIE." (For Candy.) GORHAM CHOCOLATE COMPANY, INC., Brooklyn, N. Y. Filed May 3, 1922.

24,510.—*Title:* "HONEY KRUST." (For Bread.) H. GRAUGNARD, Galveston, Tex. Filed January 14, 1922.

24,511.—*Title:* "GREEN'S ORIGINAL CHOCOLATE COVERED RAISIN COCOANUT CREAM BAR." (For Carton for Candy.) GREEN BROS. CO., Springfield, Mass. Filed April 29, 1922.

24,512.—*Title:* "HUBERD'S SHOE GREASE." (For Shoe Grease.) J. W. HUBERD, Eugene, Oreg. Filed March 12, 1920.

24,513.—*Title:* "INFANZON & RODRIGUEZ PORTO RICAN PLANTER." (For Cigars.) INFANZON & RODRIGUEZ, New York, N. Y., and Mayaguez, P. R. Filed April 27, 1922.

24,514.—*Title:* "'THE GREEN LEMON'." (For Soap.) INTERNATIONALA LIMITED, Chicago, Ill. Filed April 29, 1922.

24,515.—*Title:* "JEVNE'S GINGHAM." (For Coffee.) H. JEVNE CO., Los Angeles, Calif. Filed May 4, 1922.

24,516.—*Title:* "JEVNE'S BROWN MILL." (For Coffee.) H. JEVNE CO., Los Angeles, Calif. Filed May 4, 1922.

24,517.—*Title:* "JEVNE'S LOOK FOR THE GINGHAM PACKAGE." (For Rolled Oats.) H. JEVNE CO., Los Angeles, Calif. Filed May 4, 1922.

24,518.—*Title:* "JEVNE'S." (For Biscuit Flour.) H. JEVNE COMPANY, Los Angeles, Calif. Filed May 4, 1922.

24,519.—*Title:* "JEVNE'S LOOK FOR THE GINGHAM PACKAGE." (For Rolled Oats.) H. JEVNE CO., Los Angeles, Calif. Filed May 4, 1922.

24,520.—*Title:* "TIETON." (For Apples.) HUNTINGTON JOHNSTON, Yakima, Wash. Filed April 22, 1922.

24,521.—*Title:* "BLEACHO." (For Hair Bleach.) JOSEPH HENRY KARP, New York, N. Y. Filed May 3, 1922.

24,522.—*Title:* "THE CHORE BOY—243 USES." (For Scouring Cloths.) RUSSELL B. KINGMAN, Orange, N. J., assignor to The Chore-Utensils Corporation of America, Orange, N. J. Filed November 15, 1921.

24,523.—*Title:* "PEE-KAY." (For a Sirup for Making Soft Drinks.) PAUL KOLBE, Detroit, Mich. Filed December 31, 1921.

24,524.—*Title:* "ROYAL JULIET." (For Cigars.) ROBIN LANDMAN, Milwaukee, Wis. Filed February 4, 1922.

24,525.—*Title:* "MADDEN'S CREOPINE COUGH SYRUP." (For Cough Sirup.) MADDEN'S PHARMACY, Jacksonville, Fla. Filed October 20, 1921.

24,526.—*Title:* "MARSH BIG HAVANA WHEELING." (For Stogies.) M. MARSH & SON, INC., Wheeling, W. Va. Filed March 20, 1922.

24,527.—*Title:* "SHUR OYLUS." (For Oils and Greases.) JOHN W. MCARTHUR, doing business under the name of Scientific Oil Service, Minneapolis, Minn. Filed March 13, 1922.

24,528.—*Title:* "OLD HOME BREAD." (For Wax-Paper Bread Wrappers.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Eau Claire Baking Co., Eau Claire, Wis. Filed May 6, 1922.

24,529.—*Title:* "FRUIT LOAF." (For Loaves of Bread.) MILLER-PARROTT BAKING CO., Terre Haute, Ind. Filed April 22, 1922.

24,530.—*Title:* "MOORE PUSH-PINS." (For Push Pins.) MOORE PUSH-PIN COMPANY, Philadelphia, Pa. Filed April 25, 1922.

24,531.—*Title:* "MOTH K-L." (For a Liquid Preparation for Protection Against Moths.) THE MOTH K-L COMPANY, INCORPORATED, Wilmington, Del., and New York, N. Y. Filed May 1, 1922.

24,532.—*Title:* "NEK-RITZ'S IRON LUSTRE." (For a Stove Gloss Preparation.) LOUIS NEKRITZ, doing business as the Perfect Polish Company, Brooklyn, N. Y. Filed May 4, 1922.

24,533.—*Title:* "DORA DEAN HAIR NET." (For Hair Nets.) NEW YORK MERCHANDISE COMPANY, New York, N. Y. Filed May 5, 1922.

24,534.—*Title:* "DELLA HAIR NET." (For Hair Nets.) NEW YORK MERCHANDISE COMPANY, New York, N. Y. Filed May 5, 1922.

24,535.—*Title:* "RUBY HAIR NET." (For Hair Nets.) NEW YORK MERCHANDISE COMPANY, New York, N. Y. Filed May 5, 1922.

24,536.—*Title:* "DOLLY VARDEN HAIR NET." (For Hair Nets.) NEW YORK MERCHANDISE COMPANY, New York, N. Y. Filed May 8, 1922.

24,537.—*Title:* "LIVE OAK BRAND TOMATOES." (For Tomatoes.) NORTH AMERICAN FRUIT EXCHANGE, Jersey City, N. J., and New York, N. Y. Filed April 29, 1922.

24,538.—*Title:* "NURADIUM." (For a Medicinal and Pharmaceutical Preparation, Consisting of Minute Particles of Radium Combined with Other Medicinal and Therapeutical Ingredients to Form Nuradium.) NURADIUM COMPANY, Chicago, Ill. Filed January 16, 1922.

24,539.—*Title:* "MADAGASCO." (For a Preparation for the Hair.) WILLIAM M. O'NEALL, Chicago, Ill. Filed November 21, 1921.

24,540.—*Title:* "PADRU KNIT." (For Hosiery. PADUCAH HOSIERY MILLS, INC., Paducah, Ky. Filed May 4, 1922.

24,541.—*Title:* "FANCY CALIFORNIA CHERRIES." (For Boxed Cherries.) PENRYN FRUIT COMPANY, Penryn, Calif. Filed April 27, 1922.

24,542.—*Title:* "IL VINCITOR." (For Boxes Containing Cigars.) PETRI ITALIAN-AMERICAN CIGAR CO., INC., San Francisco, Calif. Filed October 19, 1921.

24,543.—*Title:* "PICANINNY FREEZE EAT SEEDS 'N ALL." (For Ice Cream or Analogous Confections, and More Particularly in the Form of Individual Frozen Dainties.) PICANINNY FREEZE COMPANY OF AMERICA, Salt Lake City, Utah. Filed May 2, 1922.

24,544.—*Title:* "PUT AND TAKE ALL RUBBER PATCH." (For an All-Rubber Patch for Mending Automobile Tire, Inner Tubes, or Other Articles Made of Rubber or Fabric.) PUT AND TAKE CO., Memphis, Tenn. Filed February 27, 1922.

24,545.—*Title:* "REMINGTON CUTLERY." (For Cutlery.) REMINGTON ARMS COMPANY, INC., New York, N. Y.; Bridgeport, Conn., and Ilion, N. Y. Filed April 24, 1922.

24,546.—*Title:* "TRAP LOAD." (For Loaded Shot Shells.) REMINGTON ARMS COMPANY, INC., New York, N. Y.; Bridgeport, Conn., and Ilion, N. Y. Filed April 26, 1922.

24,547.—*Title:* "REY DE LA BARBA." (For Boxes and Cans Containing Cigars.) REY DE LA BARBA CIGAR CO., New York, N. Y. Filed May 10, 1922.

24,548.—*Title:* "CASTLE." (For Underwear.) RICHARDSON DRY GOODS CO., St. Joseph, Mo. Filed May 4, 1922.

24,549.—*Title:* "ROLLY'S WONDER." (For Complexion Soap.) ROLLY CHEMICAL CO., Hastings, Nebr. Filed May 1, 1922.

24,550.—*Title:* "SANDS PREPARED COCOA CUBES." (For Cocoa.) SANDS COCOA CORPORATION, Brooklyn, N. Y. Filed May 4, 1922.

24,551.—*Title:* "SPRUCINE." (For Medicinal Ointment.) EARL L. SARGENT, Beverly, Mass. Filed March 14, 1922.

24,552.—*Title:* "VALLEY FORGE SPECIAL MALT EXTRACT." (For Malt Extract.) ADAM SCHEIDT BREWING COMPANY, Norristown, Pa. Filed September 20, 1921.

24,553.—*Title:* "LA DASCA." (For Cigars, Cigarettes, and Tobacco.) D. A. SCHULTE INC., New York, N. Y. Filed October 5, 1921.

24,554.—*Title:* "FANCY GRAVENSTEINS." (For Boxed Apples.) SEBASTOPOL APPLE GROWERS UNION, Sebastopol, Calif. Filed April 27, 1922.

24,555.—*Title:* "ALASKA PATTIES." (For Patties or Small Pies Consisting of Thin Palatable Crusts or Casings Confected in Different Combinations; Filled with Variously-Flavored Ice Creams, Sherbets, Fruit Ices, or Other Frozen Dainties.) CONRAD SIEM, Washington, D. C. Filed March 3, 1922.

24,556.—*Title:* "COULETTE." (For a Protective Undergarment for Women.) THE SOLVOS COMPANY, Chicago, Ill. Filed March 23, 1922.

24,557.—*Title:* "PETTI-COULETTE." (For a Protective Undergarment for Women.) THE SOLVOS COMPANY, Chicago, Ill. Filed March 23, 1922.

24,558.—*Title:* "MEJOR MANTECA PURA DE CHICHARRON." (For Lard.) JOSEPH STERN & SONS' INC., New York, N. Y. Filed March 9, 1922.

24,559.—*Title:* "REXBLU." (For Washing Tablets in Powdered Form.) THE STEVENS-WILEY MANFG. CO. INC., Philadelphia, Pa. Filed May 10, 1922.

24,560.—*Title:* "COTTON-TOP." (For a Nonintoxicating Beverage.) JULIUS F. TIEBERMAN, Cincinnati, Ohio. Filed December 29, 1919.

24,561.—*Title:* "TRI-UNE." (For a 3 in 1 Remedy for Tender Sweaty Feet, Perspiration Odors, Calli and Corns.) THE TURLINGTON CHEMICAL COMPANY, Baltimore, Md. Filed March 8, 1922.

24,562.—*Title:* "TYRITE." (For Ladies' and Men's Ties.) U. S. NECKWEAR CO., Boston, Mass. Filed March 7, 1922.

24,563.—*Title:* "VAN ESS LIQUID SCALP MASSAGE." (For Medical Preparations for the Treatment of the Hair and Scalp.) VAN ESS LABORATORIES, INC., Chicago, Ill. Filed May 1, 1922.

24,564.—*Title:* "VAN ESS LIQUID SCALP MASSAGE." (For Medical Preparations for the Treatment of the Hair and Scalp.) VAN ESS LABORATORIES, INC., Chicago, Ill. Filed May 1, 1922.

24,565.—*Title:* "VAN ESS SPECIAL DANDRUFF MASSAGE." (For Medical Preparations for the Treatment of the Hair and Scalp.) VAN ESS LABORATORIES, INC., Chicago, Ill. Filed May 1, 1922.

24,566.—*Title:* "VAN ESS SPECIAL DANDRUFF MASSAGE." (For Medical Preparations for the Treatment of the Hair and Scalp.) VAN ESS LABORATORIES, INC., Chicago, Ill. Filed May 1, 1922.

24,567.—*Title:* "WOOL'S." (For Fruit Salad.) F. G. WOOL PACKING COMPANY, San Jose, Calif. Filed May 2, 1922.

24,568.—*Title:* "REAL FLAX DEW BLEACH." (For Handkerchiefs.) WYMAN, PARTRIDGE & CO., Minneapolis, Minn. Filed April 24, 1922.

24,569.—*Title:* "SWEET WHEAT BREAD." (For Bread.) A. YOST & SON, Johnstown, Pa. Filed March 31, 1922.

PRINTS

REGISTERED JUNE 20, 1922.

6,154.—*Title:* "CAS-PIRIN." (For Advertising Purposes for Medicine for Colds, La Grippe, Influenza, Headache.) ACME DRUG CO., Flint, Mich. Filed October 21, 1921.

6,155.—*Title:* "VENUS EVERPOINTED PENCILS." (For Advertising Purposes for Lead Pencils.) AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed April 27, 1922.

6,156.—*Title:* "ENCOURAGE THE KIDDIES TO WRITE AND DRAW." (For Advertising Purposes for Pony Desks.) CARL T. ANDERSON, Madison, Wis. Filed February 24, 1922.

6,157.—*Title:* "BAKER BRUSH." (For Advertising Purposes for Paintbrushes.) BAKER BRUSH COMPANY, INC., New York, N. Y. Filed March 11, 1922.

6,158.—*Title:* "BRILLO MAKES OLD ALUMINUM UTENSILS NEW." (For Advertising Purposes for Cleaning and Polishing Outfits for Aluminum Utensils.) BRILLO MANUFACTURING COMPANY, Brooklyn, N. Y. Filed May 5, 1922.

6,159.—*Title:* "LA PALINA THE QUALITY CIGAR SINCE 1896." (For Advertising Purposes for Cigars.) CONGRESS CIGAR COMPANY, Philadelphia, Pa. Filed January 7, 1922.

6,160.—*Title:* "BONCILLA." (For Advertising Purposes for a Beautifier.) THE CROWN CHEMICAL COMPANY, Indianapolis, Ind. Filed May 8, 1922.

6,161.—*Title:* "CREAM OF WHEAT." (For Advertising Purposes for Wheat Breakfast Food.) CREAM OF WHEAT CO., Minneapolis, Minn. Filed May 8, 1922.

6,162.—*Title:* "'WHERE HEALTHY BABIES COME FROM'." (For Advertising Purposes for Wheat Breakfast Food.) CREAM OF WHEAT CO., Minneapolis, Minn. Filed May 8, 1922.

6,163.—*Title:* "'I HAVE WRITTEN A LETTER OF RECOMMENDATION FOR YOU, CÉLESTE'." (For Advertising Purposes for Eaton's Highland Linen.) EATON, CRANE & PIKE COMPANY, Pittsfield, Mass. Filed March 7, 1922.

6,164.—*Title:* "WEIGH LIGHTEST FIT TIGHTEST." (For Advertising Purposes for Pistons.) THE KANT-SKORE PISTON COMPANY, Cincinnati, Ohio. Filed March 14, 1922.

6,165.—*Title:* "THE MENTER PLAN OF HOME BUDGETS." (For Advertising Purposes for an Account Book Called The Menter Plan of Home Budgets.) THE MENTER CO. INC., New York, N. Y. Filed March 9, 1922.

6,166.—*Title:* "MADE BETTER ANTISEPTIC TOOTH PASTE." (For Advertising Purposes for Tooth Paste.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed April 27, 1922.

6,167.—*Title:* "FRUIT AND NUT BAR." (For Advertising Purposes for a Fruit and Nut Bar.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed April 29, 1922.

6,168.—*Title:* "MERCURY SPEED PATCH." (For Advertising Purposes for a Self-Vulcanizing Rubber Repair Patch.) MILWAUKEE PAPER BOX CO., Milwaukee, Wis. Filed March 18, 1922.

6,169.—*Title:* "OFF 'N' ON CHAINS." (For Advertising Purposes for Automobile Tire Chains.) OFF 'N' ON CHAIN CORPORATION, New York, N. Y. Filed February 20, 1922.

6,170.—*Title:* "THE SIX SECRETS OF AN IDEAL SHAVING CREAM." (For Advertising Purposes for Shaving Cream.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed May 1, 1922.

6,171.—*Title:* "TO FAIR-MINDED MEN." (For Advertising Purposes for Shaving Cream.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed May 1, 1922.

6,172.—*Title:* "A GIFT CAKE FOR EVERY CHILD TO MAKE THEM ENJOY WASHING." (For Advertising Purposes for Palmolive Soap.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed May 6, 1922.

6,173.—*Title:* "MAKING PALMOLIVE 3,000 YEARS AGO." (For Advertising Purposes for Palmolive Soap.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed May 6, 1922.

6,174.—*Title:* "GOOD BUSINESS." (For Advertising Purposes for Shaving Cream.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed May 6, 1922.

6,175.—*Title:* "ROCKWOOD PAPER PULLEYS." (For Advertising Purposes for Power-Transmission Pulleys.) THE ROCKWOOD MANUFACTURING COMPANY, Indianapolis, Ind. Filed April 29, 1922.

6,176.—*Title:* "KNOCK 'EM OVER." (For Advertising Purposes for a Game.) GEORGE SCHNEIDER, Rochester, N. Y. Filed April 26, 1922.

6,177.—*Title:* "SAY BEN-GAY." (For Advertising Purposes for Baume Bengue.) THEODORE SELTZER, West Hoboken, N. J. Filed March 17, 1922.

6,178.—*Title:* "TOEWEAR FACTS." (For Advertising Purposes for Hosiery.) TOEWEAR HOSIERY INC., Norristown, Pa. Filed May 3, 1922.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

U. S. Circuit Court of Appeals—First Circuit.

AUTOMATIC PENCIL SHARPENER CO. *v.* BOSTON PENCIL POINTER CO.

Decided February 21, 1922.

[279 Fed. Rep., 40.]

1. COURTS—ADOPTION BY FEDERAL COURT OF STATE PRACTICE OF TAKING ALTERNATIVE VERDICTS APPROVED.

Adoption by the Federal courts in Massachustts of the State practice in actions at law of taking the verdict of the jury finding plaintiff's damages, and also a verdict for defendant if the court should rule that as matter of law plaintiff was not entitled to recover, approved.

2. PATENTS—WHEN QUESTION OF INFRINGEMENT IS ONE OF LAW.

When the question of infringement depends on the construction and scope of the patent, and that does not require expert testimony or depend on any doubtful question of the prior art, it is a question of law for the court.

3. SAME—640,846, FOR PENCIL SHARPENER, HELD NOT INFRINGED.

The Webster patent, No. 640,846, for a pencil sharpener, claim 4, *Held* not infringed.

IN ERROR to the District Court of the United States for the District of Massachusetts; James M. Morton, judge.

Action at law by the Automatic Pencil Sharpener Company against the Boston Pencil Pointer Company. Judgment for defendant, and plaintiff brings error. Affirmed.

Mr. Henry M. Huxley (*Mr. Sherman L. Whipple* and *Mr. Edward O. Proctor* on the brief) for the plaintiff in error.

Mr. E. Clarkson Seward and *Mr. Asa P. French* for the defendant in error.

Before BINGHAM, JOHNSON, and ANDERSON, Circuit Judges.

ANDERSON, *Cir. J.:*

This is an action at law to recover damages for the alleged infringement of Webster's patent, No. 640,846, dated January 9, 1900, for a pencil sharpener.

[1] After a long trial before a jury, the court below ruled that as matter of law the plaintiff was not entitled to recover. The verdict was returned in the form of an alternative verdict; the jury finding, subject to the court's ruling on the question of law, for the plaintiff in the sum of $16,670, but consenting to a verdict for the defendant if the court should rule that as matter of law the plaintiff was not entitled to a verdict.

In the view we take of the case, the proceedings as to the alternative verdict are of no present import. But we add that the alternative verdict method adopted at this trial is one making for efficiency and economy, is fully warranted by the Massachusetts statutes as to procedure, here applicable under the Conformity Act (Comp. St., sec. 1537), and is consistent with recent Federal legislation. (See Acts Mass. 1915, c. 185, sec. 1; Rev. Laws Mass., c. 173, sec. 120; *Bothwell* v. *Boston Elevated Ry.*, 215 Mass. 467, 476; 102 N. E., 665; L. R. A., 1917F, 167 Ann. Cas. 1914B, 275, and cases cited; 26 Harvard Law Review, 732; 31 Harvard Law Review, 685; *Plews* v. *Burrage* (C. C. A.), 274 Fed. 881.)

[2] The gist of the case is whether the issue presented as to infringement is one of law or of fact. The district court held that, in view of the prior art and of the important testimony of the patentee, which was not before the court in the case of *Automatic Pencil Sharpener Co.* v. *Stewart Mfg. Co.* (249 Fed., 52; 161 C. C. A., 112), assuming every disputed fact to be found in favor of the plaintiff, the claim in suit was not entitled to a construction sufficiently broad to cover the defendant's machine.

It is not entirely easy to reconcile all the expressions of the Supreme Court on this question of when a patent infringement case presents a question of fact and when one of law only. In some of the earlier cases are fairly broad statements to the effect that questions of construction in the light of the prior art—particularly when there is expert evidence—as well as questions of infringement, are questions of fact. Cases illustrating this view are the following: *Coupe* v. *Royer* (155 U. S., 565, 575, 577; 15 Sup. Ct. 199; 39 L. Ed., 263), *Royer* v. *Shultz Belting Co.* (135 U. S., 319; 10 Sup. Ct., 833; 34 L. Ed., 214), *Keyes* v. *Grant*, (118 U. S., 25; 6 Sup. Ct., 950; 30 L. Ed., 54), *Tucker* v. *Spalding* (13 Wall., 453, 455; 20 L. Ed., 515), *Bischoff* v. *Wethered* (9 Wall., 812, 815; 19 L. Ed., 829). See also *Trustees, Etc.*, v. *Fountain, Etc.*,

Corp. (218 Fed., 642; 134 C. C. A., 663), where Judge Lacombe quotes from the chief authorities. Compare *Heide* v. *Panoulias* (188 Fed., 914, 917; 110 C. C. A., 656).

On the other hand, the later cases stress the view that it is for the court to construe patents as written instruments, dealing with the prior art somewhat as the surrounding circumstances and status of the parties are dealt with in construing other contracts, and also, when expert evidence is not needed to explain terms of art, to determine the question of infringement as one of law.

The latest and most authoritative expression of the rule is found in the opinion by Mr. Justice White in *Singer Mfg. Co.* v. *Cramer* (192 U. S., 265; 24 Sup. Ct., 291; 48 L. Ed., 437), where the learned justice says:

> As in each of the patents in question is apparent from the face of the instrument that extrinsic evidence is not needed to explain terms of art therein, or to apply the descriptions to the subject-matter, and as we are able from mere comparison to comprehend what are the inventions described in each patent and from such comparison to determine whether or not the Diehl device is an infringement upon that of Cramer, the question of infringement or no infringement is one of law and susceptible of determination on this writ of error. (*Heald* v. *Rice*, 104 U. S., 737; *Market Street Cable Ry. Co.* v. *Rowely*, 155 U. S., 621, 625).

In *Brothers* v. *Lidgerwood Mfg. Co.* (223 Fed., 359; 138 C. C. A., 460) Judge Lacombe states the rule as follows:

> It is well settled that when the validity of a patent is to be determined and its claim construed by reference to prior patents, about the dates and authenticity of which there is no controversy, the trial judge will usually construe those documents as he would other documents; his doing so does not invade the province of the jury. There may be exceptional cases, but this is not one of them. The first questions, therefore, for this court to determine, are whether, in view of the prior art patents, the one in suit is valid, and what is the scope of its claims.

In Walker on Patents (5th ed.) section 536, it is said:

> The judge may direct the jury to return a verdict for the defendant, where it is entirely clear that the plaintiff cannot recover, but not otherwise. Such a direction may therefore be given, where want of novelty or want of invention is clearly shown by a prior patent, but not where that question is doubtful. And such a direction may be given where the question of infringement depends entirely upon the construction of the patent; and where that construction does not depend upon any doubtful question of the prior art.
>
> But where the question of infringement depends upon the construction of the patent, and that construction depends upon a doubtful question in the prior art, the latter question should be left to the jury; and the dependent question of infringement should also be left to the jury to decide.

We think this case falls within the rule laid down by Mr. Justice White, and that the court below did not err in ordering a verdict for the defendant.

[3] A brief consideration of the patent in suit, of the prior art, and of the defendant's device will, we think, suffice to show that there was no evidence that would warrant the jury in finding that claim 4 of the plaintiff's patent, the only claim in suit, was infringed by the defendant's device.

The plaintiff's patent describes a planetary pencil sharpener; that is, a sharpener in which the cutter, while being rotated on its own axis, is, with the block which holds the pencil against the cutter, rotated around the pencil. Pencil sharpeners of the planetary type are old. Plaintiff's patent, like other sharpeners, is merely for an alleged new combination with elements all, or nearly all, old. It is plainly entitled to no broad range of equivalents.

We find detailed consideration of the prior art unnecessary. It is enough to note that examination of it shows, as does the evidence of the plaintiff's patent expert, who may be fairly assumed to have put the plaintiff's case in the strongest possible light, that there is no new element in the Webster patent, unless possibly it be found in a cutter with spiral blades.

Plaintiff's expert, referring to the Rice patent, No. 230,338, dated July 20, 1880, and other patents, cited in the prior art, says:

> I think the conical spiral cutter is the leading, important thing in Webster's invention.

And again:

> The court: You agree, Mr. Livermore, that the claim in suit reads on the Livingston device except for the form of the cutter?
>
> The witness: Except for the character of the cutter; yes. Aside from that, it is largely a planetary machine.

The Livingston patent was No. 445,677, dated February 3, 1891.

Webster in his specification sets forth that the object of his improvement is to provide a simple and efficient device for pointing the pencil in a perfect manner without breaking the lead; a further object being to provide means to automatically feed the pencil against the cutter. He then describes a combination of crank, shaft, gears and devices to secure the necessary rotary movements. The cutter is described as shaped like "the frustum of a cone" and "provided with a plurality of spiral blades"; also as so mounted on a shaft that, by "putting more washers between the hub and the cutter and fewer between the screw and the cutter I can adjust the said cutter longitudinally," so as to "allow for the grinding of the blades and the adjustment of the cutter accordingly," and thus to "greatly prolong the life of the cutter." As his conical-shaped cutter is on a shaft running parallel to the block which holds the pencil, the cutter must obviously be made conical, so as to produce the desired conical shape in the sharpened pencil. Nowhere in the specification or drawing is any other than a conical-shaped cutter mentioned or shown.

In brief, the plaintiff's patent disclosed a combination, perhaps new, of mounting and operating devices, and of a block with a conical recess holding the pencil against a conical-shaped cutter with spiral blades, and with a special provision for adjustment by shifting washers on the axle carrying the cutter. It does not show a combination in which a cylindrical cutter will function.

Most of the 14 claims, explicitly or by reference to the drawings, include the conical shaped cutter as a part of the combination claimed. Claim 4, upon which this suit is brought, is as follows:

> In a pencil sharpener, a cutter provided with spiral blades, said cutter being mounted upon an axle upon the opposite end of which is a pinion, an internal gear secured to the stationary casing, and with which said pinion meshes, said axle being mounted in a bearing which is mounted upon a second axle, a crank secured to said second axle, and a block secured upon said second axle adjacent to said cutter, and provided with a conical groove adapted to receive a pencil and direct and hold the same against the said cutter, substantially as and for the purpose set forth.

Turning now to the defendant's device, we find a sharpener with a pair of cutters, both cylindrical, with an operating or rotating device substantially different from Webster's, and without any means of adjusting the cutters as they wear in use. In defendant's structure, the conical shaped cutter, necessary in the plaintiff's device to sharpen a pencil into a conical shape, is eliminated by so tilting the cylindrical cutters as to present them at a proper angle to the pencil. Manifestly, such tilting of the cutters requires a substantially different arrangement of the axle and of the operating machinery. We think it impossible to hold that the conical-shaped cutter, operating on an axle parallel to the cutter, may be found to be the equivalent of cylindrical-shaped cutters, so tilted and operated as to perform the same function.

This difference between the two machines is obviously of very great importance. It appears, not only from observation of the devices themselves, as shown in the plaintiff's patent and in defendant's machines, but from the testimony of Webster, the patentee. He testifies that he recognized at the outset that a conical-shaped cutter had great disadvantages; that it was disproportionately expensive to produce. In fact, his device for a conical-shaped cutter never met with commercial success; 80 to 90 were made, then the manufacture stopped. Meantime, as he testifies, for two or three years he devoted himself to solving the problem of so arranging the axles and operating devices as to permit the use of cylindrical-shaped cutters; finally, as he claims, achieving success through a new mechanism for mounting the cylindrical cutters, for which he obtained in 1906 a patent, No. 819,104. To change from the conical to the cylindrical cutter involved invention; it was not merely mechanical adjustment. Webster could not get this invention by merely claiming it, if he did claim it in claim 4; he must disclose it. He did not disclose it.

We have, then, a case where—paraphrasing the language of Mr. Justice White in *Singer Mfg. Co.* v. *Cramer*, supra—by a mere comparison of the patent with the defendant's device we are able to comprehend what are the inventions described, and from such comparison to determine whether or not the defendant's device is or is not an infringement of the plaintiff's device, and also a case in which the patentee himself has testified that it required years of study on his part to make the invention as to mounting and operating cylindrical cutters necessary to bring the defendant's device within the scope of the claim sued upon.

As the plaintiff's patent has now expired, it would be of no advantage either to the parties or to the public for us to consider its validity and scope. What we have said is enough to dispose of this case.

We do not overlook that the Court of Appeals for the Seventh Circuit in the *Stewart Case*, supra, took a somewhat different view as to the construction of this patent. We have, of course, the greatest deference for the opinion of that learned court, when the record before it is closely analogous to the record before us. Now, as always, we regret that there should be necessity of different views in different circuits as to the scope and validity of the same patent. But the record before that court was, as the defendant justly contends, radically different from the record before us. We cannot on this record accord with the view there expressed as to the scope to be given Webster's patent.

The judgment of the district court is affirmed, with costs to the defendant in error.

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office.

Vol. 299—No. 4. TUESDAY, JUNE 27, 1922. Price—$5 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $5.00 per annum; single numbers, 10 cents each.

Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CONTENTS.

	Page.
Issue of June 27, 1922	663
Interference Notices	663
Changes in Classification	663
Applications Under Examination	664
Patents Granted	665
Reissues	814
Designs	814
Trade-Marks Published (253 Applications)	819
Trade-Mark Registrations Granted	855
Trade-Mark Registrations Renewed	865
Labels	867
Prints	868
Decisions of the U. S. Courts—	
Doulett *v.* Muther, Etc	869
Adjudicated Patents	870
Patent Suits	870
Adverse Decisions in Interference	872
Disclaimer	872

Issue of June 27, 1922.

Patents	738—No.	1,420,619 to No.	1,421,356 inclusive.
Designs	16—No.	61,130 to No.	61,145 inclusive.
Trade-Marks	82—No.	156,498 to No.	156,579 inclusive.
Labels	42—No.	24,570 to No.	24,611 inclusive.
Prints	16—No.	6,179 to No.	6,194 inclusive.
Reissues	2—No.	15,333 to No.	15,394 inclusive.
T. M. Renewals	32		
Total	928		

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 13, 1922.

Conn and Moran, their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Conn and Moran, of 324½ South Hill Street, Los Angeles, Calif., and an application of Pasquale Beneduce, of 326 Monroe Street, Hoboken, N. J., for patent, and the Office having failed to secure proof of service upon Conn and Moran at their address of record, or upon Pottenger and Pottenger, of 427 Western Mutual Life Building, Los Angeles, Calif., the parties who filed said Conn and Moran's application, notice is hereby given that unless Conn and Moran, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 13, 1922.

William H. Starbuck, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The Hirshberg Paint Co., 106 to 110 West Pratt Street, Baltimore, Md., for registration of a trade-mark and trade-mark registered April 7, 1903, No. 40,058, to William H. Starbuck, 404 Broome Street, New York, N. Y., and a notice of such declaration sent by registered mail to said William H. Starbuck at the said address having been returned by the post office undeliverable, notice is hereby given that unless said William H. Starbuck, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Assistant Commissioner.

Changes in Classification.

(ORDER No. 2,759.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 16, 1922.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 24, Buckles, Buttons, Clasps, Etc. (Division XXXV), establish the following subclass and definition:

72.5. Bedclothes holders.

72.5. BEDCLOTHES HOLDERS. Devices specially adapted for holding bedclothes in position.

The patents contained in this subclass have been taken for the most part from class 5, Beds, subclass 22, Clothes clamps.

In class 135, Tents, Canopies, Umbrellas, and Canes (Division II), establish the following subclasses and definitions:

Canopies—

5.1. Bed—

5.2. Expansible.

5.3. Vertically swinging.

5.1. CANOPIES, BED. Mosquito nets attached to a bedstead or especially adapted for use therewith.

5.2. CANOPIES, BED, EXPANSIBLE. Where the canopy is expansible to fit a wider or narrower, longer or shorter bed.

5.3. CANOPIES, BED, VERTICALLY SWINGING. Where the canopy is pivoted to swing or fold in a vertical plane.

The patents contained in these subclasses have been taken for the most part from class 5, Beds, subclass 14, Mosquito nets and canopies.

In class 135, Tents, Canopies, Umbrellas, and Canes (Division II), in the main class definition, insert after the word "from" in the first line the words:

mosquitoes, flies, and other insects, and from

In the same class, subclass 5, Canopies, cancel in the first sentence of the definition, the words "Miscellaneous sun and rain protections of a portable nature" and substitute therefor the following words:

Miscellaneous protections of a portable nature from the sun and rain and from insects such as mosquitoes and flies,

In the same class, subclass 8, Canopies, Hanging covers, cancel the note following the definition.

WM. A. KINNAN,
Acting Commissioner.

Condition of Applications Under Examination at Close of Business June 17, 1922.

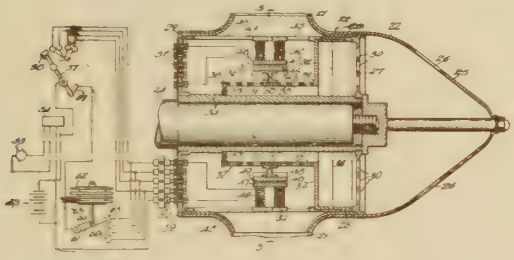
(Total number of applications waiting action, excluding Trade-Mark division, 67,646; Trade-Mark division, 8,705. Oldest new case, Mar. 22, oldest amended, Mar. 26, 1921. The dates given are 1921. except where * indicates 1922.)

Room No.	Divisions, Examiners, and subjects of inventions.	Oldest new application awaiting office action. New.	Oldest new application awaiting office action. Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	Nov. 28	Dec. 13	922
128	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants, and Flowers.	June 16	July 5	1,914
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Sept. 16	Aug. 16	935
234	4. MERRITT, A. D., Conveyers; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Aug. 12	*Apr. 3	1,515
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Sept. 19	Sept. 12	1,104
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Sept. 12	*Feb. 9	1,264
312	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes	Sept. 15	Nov. 7	2,386
133	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet-Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	*Mar. 15	*Apr. 19	867
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	May 28	*Apr. 8	1,137
235	10. MITCHELL, T. H., Land Vehicles; Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	Dec. 3	*Mar. 18	1,096
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	*Jan. 16	*Feb. 21	615
322	12. PIERCE, P. P., Machine Elements	Nov. 5	*Jan. 17	1,325
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	May 27	*Feb. 9	1,902
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	June 25	*Mar. 16	955
308	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	June 30	Aug. 8	2,024
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	June 20	July 5	2,301
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Aug. 30	*Jan. 3	1,375
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices; Steam and Vacuum Pumps.	May 20	May 5	2,399
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Rheostats and Humidostats.	June 2	Sept. 3	1,272
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Dec. 14	Dec. 17	1,652
212	21. THURBER, W. L., Continuous-Strip Feeding; Textiles; Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	July 22	Dec. 28	914
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making.	Oct. 21	*Feb. 4	491
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	May 11	Oct. 24	815
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Aug. 19	*Jan. 11	1,174
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*Apr. 3	*Apr. 5	434
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Sept. 12	Dec. 9	1,049
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Sept. 3	Aug. 6	1,959
225	28. BENSON, A. R., Internal-Combustion Engines	Oct. 7	Aug. 24	1,718
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking, Woodworking Tools.	Sept. 15	*Apr. 4	643
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	Dec. 7	*Apr. 1	1,413
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	June 16	Aug. 17	2,147
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Aug. 4	* Mar. 1	1,036
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Nov. 8	Dec. 28	941
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	*Mar. 13	*Mar. 13	529
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	*Feb. 13	*Mar. 15	892
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	*Jan. 16	*Jan. 3	1,801
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	July 22	July 28	1,923
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Oct. 19	Oct. 20	1,751
220	39. COWLES, A. W., Fluid-Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Apr. 30	May 16	2,269
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	June 20	Sept. 20	2,958
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	*Jan. 20	*Jan. 3	760
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	July 21	June 27	1,969
382	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	July 13	Sept. 14	1,903
253	44. SHAFFER, C. H., Air Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration; Ships.	Sept. 30	*Apr. 1	563
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Nov. 12	*Feb. 9	1,230
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Oct. 7	Nov. 3	1,342
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems.	Aug. 8	Jan. 18	1,291
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	Mar. 22	Mar. 26	2,771
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, JR.			
	Trade-Marks	Sept. 12	Jan. 30	5,837
	Designs	Oct. 24	Jan. 30	2,717
	Labels and Prints	May 22	June 5	151

PATENTS

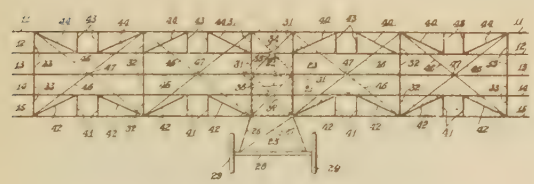
GRANTED JUNE 27, 1922.

1,420,619. PROPELLER-CONTROLLING MECHANISM. ROBERT W. BARTON, Chicago, Ill. Filed Sept. 28, 1918. Serial No. 256,026. 11 Claims. (Cl. 170—172.)



1. The improvements herein described comprising a flying machine propeller, having an air passage through the hub thereof adapted to deliver air to the arms of the propeller, a valve in the hub for controlling the flow of air, and electromagnetic means for operating said valve from a distance while the propeller is running.

1,420,620. FLYING MACHINE. GIANNI CAPRONI, Milan, Italy. Filed May 14, 1920. Serial No. 381,309. 3 Claims. (Cl. 244—31.)



1. A multiplane of four or more superposed planes having spaced apart uprights each connected to the frames of all the planes; and, extending between the upper two planes, a truss system comprising such uprights and diagonal brace members giving unitary rigidity to the combined upper two planes, and between the lower two planes such a truss system giving unitary rigidity to the combined lower two planes, and a separate means bracing the entire system of planes comprising a system of long diagonal tension members extending from the topmost to the lowermost frames.

1,420,621. PIPE LIFTER. JOHN P. CASSIDY, Aurora, Ontario, Canada. Filed June 7, 1920. Serial No. 387,163. 1 Claim. (Cl. 294—96.)

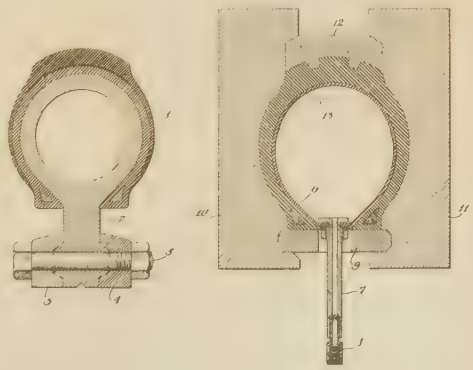
A pipe gripping device including a tapered rectangular shank, having longitudinally disposed relatively inclined grooves upon opposite sides thereof, transversely grooved expansible gripping jaws slidable on said shank, said jaws having their opposed faces longitudinally grooved to receive the shank, inwardly extending flanges located in each side of the grooves for sliding engagement with the

inclined grooves of the shank, whereby the jaws will be expanded and contracted when moved longitudinally of the shank and springs connecting the jaws.

1,420,622. GASEOUS FUEL. EDWARD A. CHARBONNEAUX, San Francisco, Calif. Filed July 6, 1920. Serial No. 394,183. 3 Claims. (Cl. 44—9.)

2. A liquid fuel composed of turpentine, ether and alcohol.

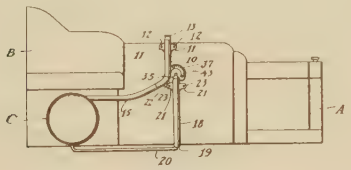
1,420,623. METHOD OF MAKING TIRE CASINGS. FRANCIS B. CONVERSE, Norwalk, Conn., assignor to The Norwalk Tire and Rubber Company, Norwalk, Conn., a Corporation of Connecticut. Filed Sept. 17, 1920. Serial No. 410,889. 9 Claims. (Cl. 18—53.)



1. The method of making tire casings, which method consists in forming an unvulcanized casing structure sub-

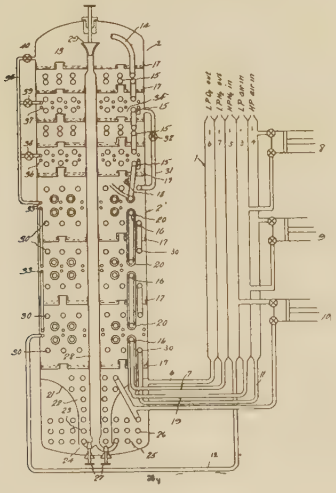
jecting said casing to fluid pressure to expand the same, then inserting a core in said casing to maintain it in its expanded condition, and then vulcanizing.

1,420,624. FILLING DEVICE AND INDICATOR. HERMAN CUSTER, Stoyestown, Pa., assignor to Custer Manufacturing Company, Stoyestown, Pa., a Corporation of Pennsylvania. Filed Apr. 2, 1920. Serial No. 370,894. 2 Claims. (Cl. 73—82.)



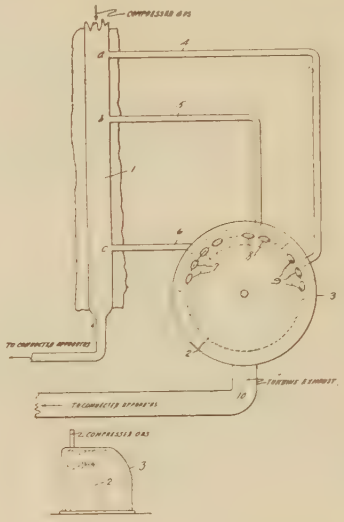
1. In a gasolene apparatus for automobiles, a tank adapted to be arranged beneath the front seat thereof, a filling tube connected with said tank and including a horizontal portion and a vertical portion, the latter being arranged adjacent one side of the machine, an indicating device including a tube disposed in juxtaposition to said vertical portion of the filling tube, means connecting said tubes together, an arcuate-shaped graduated plate carried by the filling tube adjacent the receiving end thereof and overlying the adjacent end of the second mentioned tube, and a movable pointer arranged to cooperate with said plate for the purpose specified.

1,420,625. LIQUEFACTION OF AIR. HARVEY N. DAVIS, Cambridge, Mass., assignor to Research Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 24, 1920. Serial No. 376,408. 25 Claims. (Cl. 62—175.)



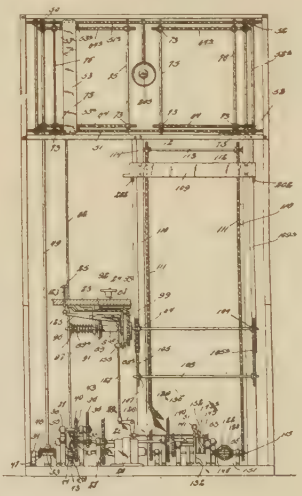
1. In a process of effecting heat exchange between a gaseous stream and a relatively colder gaseous stream flowing in counter-current heat interchanging relation, the step of promoting equality between the effective heat-transferring capacity of the warmer stream and that of the colder stream, which consists in withdrawing from the warmer stream a portion of the gas, cooling it and returning the cooled portion to counter-current heat interchanging relation with the said relatively colder gaseous stream at a point colder than its point of withdrawal.

1,420,626. INTERCHANGER TURBINE. HARVEY N. DAVIS, Cambridge, Mass., assignor to Research Corporation, New York, N. Y., a Corporation of New York. Filed July 7, 1920. Serial No. 394,546. 7 Claims. (Cl. 62—123.)



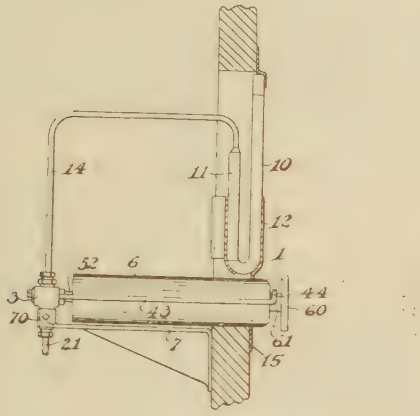
4. In combination with an interchanger, a multiple turbine having a single wheel and different groups of nozzles defining separate expansion engines, and conduits for passing a plurality of streams from different temperature levels of the interchanger to the turbine, said conduits leading to separate nozzles or groups of nozzles for expanding the said streams to substantially the same pressure and for directing the said streams against different portions of the turbine wheel.

1,420,627. ADVERTISING MACHINE. JOHN W. DUVAL, Pittsburgh, Pa. Filed Apr. 16, 1920, Serial No. 374,422. Renewed Apr. 13, 1921. Serial No. 461,149. 15 Claims. (Cl. 40—84.)



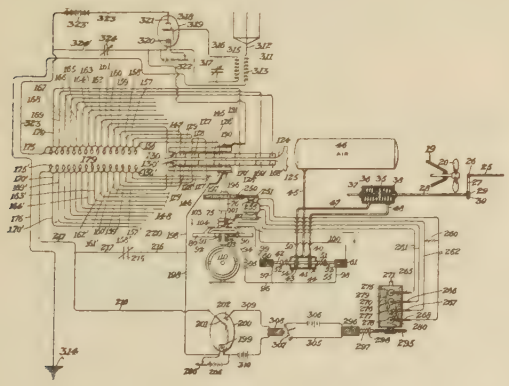
1. A machine embodying a cabinet having a display opening therein, a plurality of spring controlled normally rolled curtains, oppositely movable rotatable means for consecutively moving the curtains into position at the end of the display opening, and means engageable with the curtain so positioned to present the same within the opening in unrolled position.

1,420,628. LIQUID-LEVEL INDICATOR FOR AUTOMOBILE TANKS. JOSEPH CHESTER FOX, Seattle, Wash. Filed Apr. 1, 1920. Serial No. 370,379. 5 Claims. (Cl. 73—54.)



1. In a device of the character described, a pneumatically operated gage, a pipe connecting said gage with the tank to be gaged, a valve interposed in said pipe and adapted to disconnect the gage from the tank and to vent the gage end of the tube, a pump connecting with the tube between said valve and the tank end thereof, a pump lock controlled by the valve to hold the pump inoperative when the gage is connected with the tank, and means acting to normally establish free air connection between the gage and tank and to close the vent for the gage.

1,420,629. TELEDYNAMIC ORIENTATION SYSTEM. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Mar. 29, 1918, Serial No. 225,523. Renewed Aug. 5, 1921. Serial No. 490,111. 24 Claims. (Cl. 250—2.)

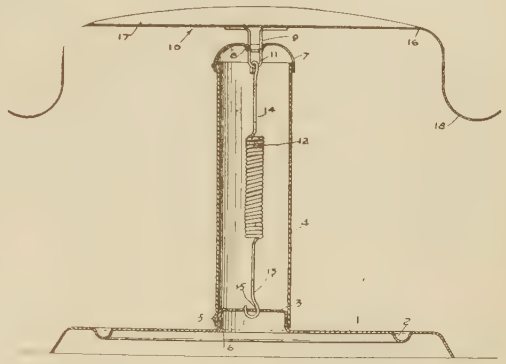


20. The combination with means for transmitting radiant oscillations, of means for impressing thereon periodic variations having a variable frequency, and receiving means responsive to said oscillations and including means movable through a variable path determined by the frequency of said variations.

1,420,630. DRIED YEAST AND METHOD OF MAKING THE SAME. ARTHUR W. HIXSON, Leonia, N. J. Filed Dec. 20, 1920. Serial No. 432,038. 7 Claims. (Cl. 99—5.)

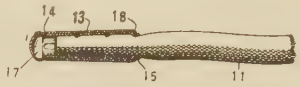
1. A process of making dried yeast, which consists in subjecting compressed yeast to slow, gradual drying for a protracted period until a product containing substantially 10 per cent of moisture is obtained.

1,420,631. COIN-DELIVERING DEVICE. UTAKICHI KAWASAKI, San Francisco, Calif. Filed Feb. 12, 1920. Serial No. 358,073. 1 Claim. (Cl. 133—14.)



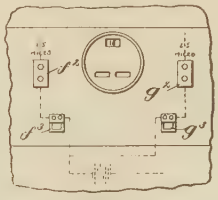
A coin delivering device comprising a base, a tubular standard upright on the base, a coin tray, a cap on the upper end of the standard having an opening centrally thereof and formed with a bearing portion around the opening, a bearing member depending centrally from the coin tray and having a bearing portion engaging the bearing portion of said cap at the opening therein, an eye extending from the bearing portion through the opening and a spring attached at one end to the base and at its other end to said eye, the said tray being spaced upwardly from the said cap.

1,420,632. CORD TIP. JAMES P. KELLY, New York, N. Y. Filed Sept. 2, 1921. Serial No. 497,866. 5 Claims. (Cl. 24—143.)



1. A cord tip comprising a clamping member having jaws for engaging the end of a cord and a sleeve embracing said jaws and slidable longitudinally with relation thereto, said jaws and said sleeve having interfitting flanges and grooved portions.

1,420,633. AUDIBLE SPEEDOMETER. JOHN E. KENNEDY, Glens Falls, N. Y. Filed Dec. 17, 1919. Serial No. 345,679. 6 Claims. (Cl. 175—355.)



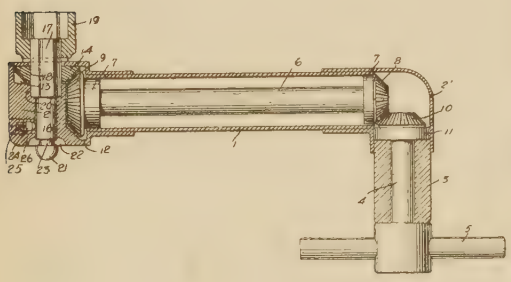
1. A speed indicating apparatus for a motor car embracing in combination a plurality of audible electrically operated signaling devices, an electric circuit leading to each signal and including an open terminal separate from the terminal of the other circuit, a circuit closer whose movement is determined by the speed of the car arranged to close the different circuits in succession and a cut out switch arranged in each electric circuit to render the individual signals incapable of normal operation, substantially as described.

1,420,634. MEDICINAL COMPOUND. JOSEPH A. KLEIN, New York, N. Y. Filed Apr. 30, 1920. Serial No. 377,843. 4 Claims. (Cl. 167—9.)

1. The herein described anæsthetic compound composed of tincture of ætheris-folia-menthæ-urtica, menthol-trichlor-acetic acid and beechwood creosote.

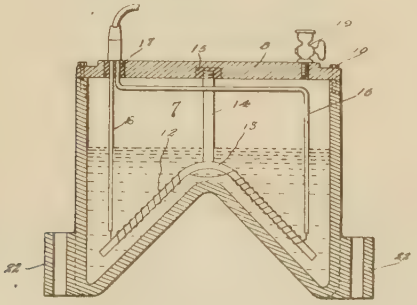
4. The improved process of producing an anæsthetic compound which consists in mixing 110 parts of ether-sulfuricum, with two parts of folia-menthæ and three parts of folia-urtica, permitting said mixture to stand in a sealed receptacle for a suitable period in a warm temperature, taking 200 parts of menthol, 300 parts of trichlor-acetic acid, mixing said ingredients to a temperature above 100° F., or until a complete liquefaction of said materials takes place, and then adding to said last named mixture 100 parts of the first described mixture and 400 parts of beechwood creosote.

1,420,635. WRENCH. AUGUST CHARLES KLOPPER, Asbury Park, N. J. Filed June 21, 1921. Serial No. 479,280. 4 Claims. (Cl. 81—57.)



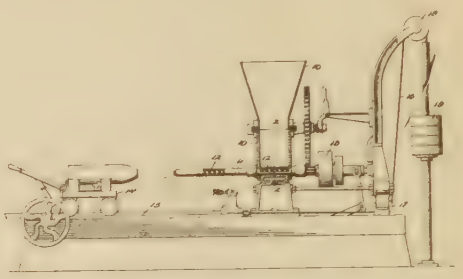
1. A wrench of the character described, comprising a tubular casing, a shaft supported by the casing at one end thereof and movable longitudinally in the casing, said shaft adapted when moved to one position to lock with the casing and against independent rotary movement, a nut-engaging socket at one end of the shaft, and means in the casing for imparting rotary movement to said shaft when the latter is in its unlocked position.

1,420,636. ELECTRICALLY-HEATED GARMENT PRESSER. BARNETT WRIGHT MACY, Jacksonville, Fla., assignor, by mesne assignments, to Electric Heating Corporation, a Corporation of Florida. Filed Feb. 16, 1921. Serial No. 445,507. 9 Claims. (Cl. 219—19.)



1. An electric iron comprising a body having a compartment and a garment contact surface, a heating element arranged in spaced relation to the garment contact surface, a bar supporting the heating element, and a post connected to the bar and secured to said body.

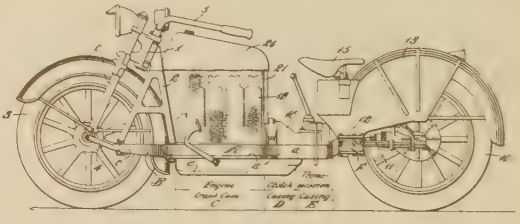
1,420,637. METHOD OF FILLING HIGH-EXPLOSIVE CONTAINERS. JAMES PATRICK MADDEN and LAFAYETTE FISHER, Bethlehem, Pa., assignors to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed June 3, 1921. Serial No. 474,837. 8 Claims. (Cl. 86—20.)



1. The method of filling shells or containers with trinitrotoluene which consists in melting a quantity of trinitrotoluene and mixing therewith a quantity of dry trinitrotoluene sufficient to form a plastic mass, and packing such plastic mass in the shells or containers.

5. The method of forming a plastic mass of trinitrotoluene which consists of melting and further heating approximately 3 parts by weight of such material, and then thoroughly mixing therewith approximately 7 parts by weight of dry trinitrotoluene.

1,420,638. MOTOR-CYCLE FRAME. ROBERT L. NOTMAN, Springfield, Mass., assignor to The Militor Corporation, New York, N. Y., a Corporation of New York. Filed June 18, 1919. Serial No. 305,005. 4 Claims. (Cl. 180—33.)

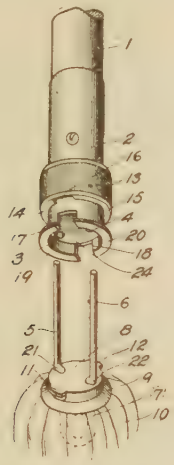


1. A motorcycle main frame formed of a single piece of sheet metal and comprising side rails of downwardly opening channel formation merging at their forward ends into forks.

1,420,639. MOP HEAD AND FASTENER THEREFOR. HERBERT M. STURGIS, Kansas City, Mo., assignor to Save-a-Handle Products Co., Kansas City, Mo., a Corporation of Missouri. Filed Dec. 8, 1920. Serial No. 429,245. 7 Claims. (Cl. 15—56.)

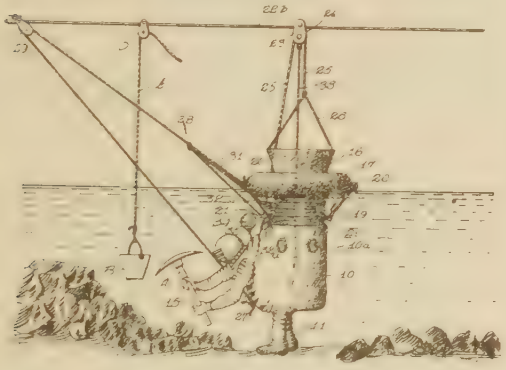
1. In combination, a mop fabric supporting head having diametrically opposite lateral projections, a handle having a fixed ferrule thereon, the end of which projects beyond the handle to form a socket, the edge of the fer-

rule having a peripheral flange intersected by projection receiving notches cut in the walls of the ferrule, and a



cam ring on the ferrule for engagement with the under faces of the projections to locate them in the recesses.

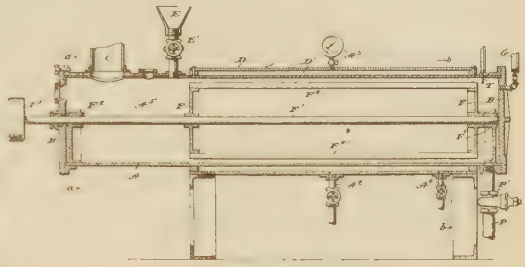
1,420,640. DIVING SUIT. EINAR JENSEN VALEUR, Barahona, Dominican Republic, West Indies. Filed Dec. 15, 1920. Serial No. 430,822. 5 Claims. (Cl. 61—69.)



1. A diving device for working in shallow water, adapted to be worn as a suit, to permit the wearer walking about while submerged, said device comprising a vertical body having a buoyant extension at the top, a lateral flexible extension complementary to the said body and adapted to accommodate the torso of the wearer, said lateral extension having a helmet for accommodating wearer's head, and flexible arm sleeves, said body having legs adjacent to and below said lateral extension adapted to receive the legs of the wearer when positioned either in the said body or partly in said lateral extension to permit of his walking in either position of his body.

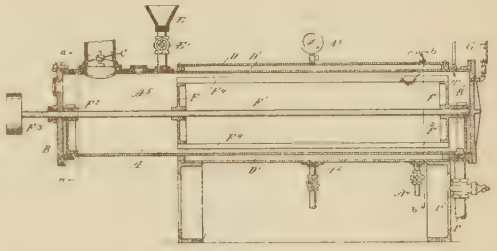
1,420,641. METHOD OF EVAPORATION. CHARLES R. MABEE, Toledo, Ohio. Original application filed Aug. 31, 1912, Serial No. 718,114. Divided and this application filed Feb. 18, 1919. Serial No. 277,904. 12 Claims. (Cl. 127—9.)

1. The process of evaporating food substances such as milk, which consists in introducing the substance into one end of a container having a uniform tubular treating surface, subjecting said tubular treating surface to uniform heat at a temperature sufficient to evaporate liquid constituents of the material substantially from end to end thereof, maintaining within the container a partial vacuum subjecting the substance to the force of contacting rotatable conveyors and applying the same in a continuous circular thin film formation on said tubular treating surface, and causing the entire tubular film of substance to rotate over said surface, while maintaining a continuous substantially unobstructed interior vapor zone substan-



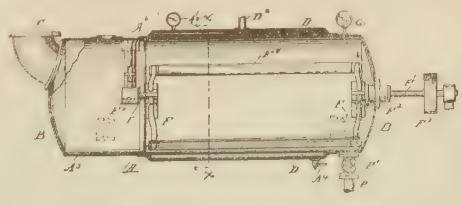
tially free from the substance from end to end of the tubular treating surface, permitting the vapors to escape inwardly from the layer to the vapor space and rapidly through the vapor space from the container, and withdrawing the evaporated substance from the opposite end of the container.

1,420,642. CENTRIFUGAL SEPARATOR AND EVAPORATOR. CHARLES R. MABEE, Cleveland, Ohio. Filed Aug. 31, 1912. Serial No. 718,114. 6 Claims. (Cl. 127—9.)



1. In an evaporating apparatus the combination of a substantially horizontally disposed closed tubular container for the material to be treated, said container having heated and unheated portions, said container also having an inlet for the material adjacent one end and an outlet adjacent the opposite end, appliances for heating a circumferential portion of the container, appliances for producing a partial vacuum therein, and appliances for giving a circular layer formation to the material in said heated portion and maintaining a circumferential movement of said layer upon the inner surface of the heated portion of the container, said last mentioned appliances being confined to the heated portion only of the container, whereby a quiet unheated portion for the escape of vapors is maintained.

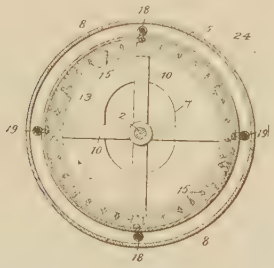
1,420,643. PROCESS OF TREATING LIQUID SUBSTANCES TO CHANGE THE CONDITION THEREOF BY EVAPORATION. CHARLES R. MABEE, Cleveland, Ohio. Filed Dec. 23, 1912. Serial No. 738,178. 7 Claims. (Cl. 127—9.)



1. The process of evaporation which consists in introducing material to be treated into an unheated portion of

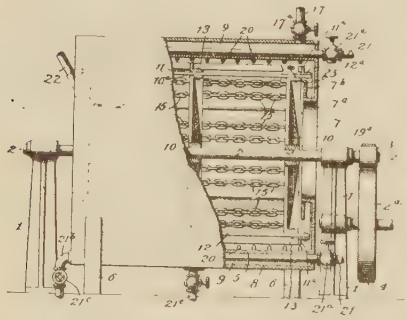
a cylindrical container, the wall of which has a heated and an unheated portion, allowing the material to flow from the unheated to the heated portion, subjecting the liquid while in the heated portion of the container to rapid rotatable movement while in circular layer formation over the interior surface of said heated portion, allowing the treated material to escape from the heated portion, and permitting the vapors of evaporation to escape from the container.

1,420,644. ART OF TREATING LIQUID SUBSTANCES. CHARLES R. MABEE, Toledo, Ohio. Filed Oct. 24, 1913, Serial No. 797,087. Renewed July 12, 1916. Serial No. 108,956. 27 Claims. (Cl. 127—9.)



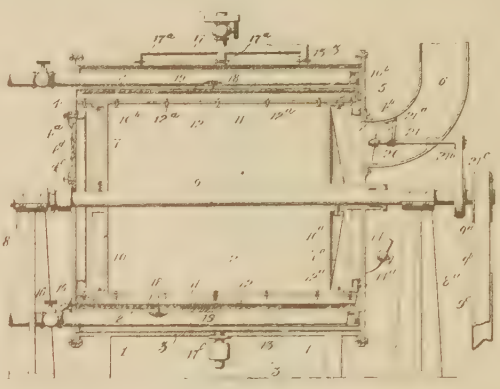
1. The art of treating liquid material or material containing liquid which consists in subjecting a continuous relatively shallow body of material while under gyratory motion in a circular path to the action of centrifugal force while in contact with a surface having a temperature differing from that of the material being treated, and at the same time retaining within the center of the shallow body of moving material a free space into which the vapors or gases are allowed to escape from the material, and introducing evaporating fluid into the body of material.

1,420,645. EVAPORATING APPARATUS. CHARLES R. MABEE, Toledo, Ohio. Original application filed Oct. 23, 1913, Serial No. 797,087. Renewed July 12, 1916, Serial No. 108,956. Divided and this application filed Dec. 9, 1913. Serial No. 805,598. 29 Claims. (Cl. 127—9.)



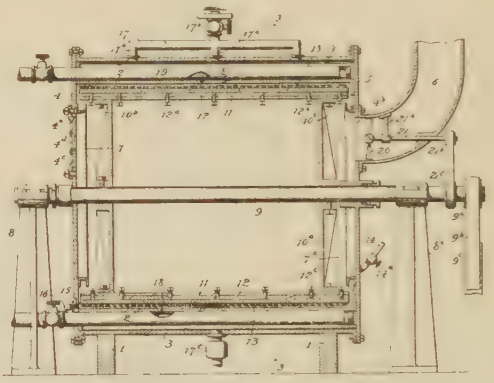
28. In an evaporating apparatus, the combination with a container of circular cross-section having at its ends an opening to the atmosphere for the free escape of vapors, means for introducing the material at one end of the container, means for removing the material at the other end of the container, means for heating the container and means for causing the body of the material as introduced to be spread onto the curved inner surface of the container and moved bodily from the point of introduction circularly over the surface and longitudinally to the point of escape.

1,420,646. ART OF TREATING LIQUID SUBSTANCES. CHARLES R. MABEE, Toledo, Ohio. Filed July 19, 1915. Serial No. 40,757. 34 Claims. (Cl. 12—9.)



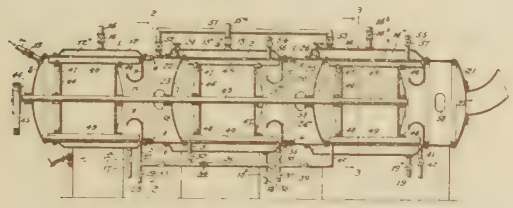
1. The art of treating substance containing an evaporable constituent consisting in spreading the substance on the inner surface of a container rapidly moving the substance circularly over the inner surface of the container and causing the same to progress from the point of introduction to a remote point of discharge, heating the inner wall of the container causing the vapors to move inwardly from the layer toward the center of the container and to escape therefrom and regulating the thickness of the layer deposited on the heated wall of the container.

1,420,647. APPARATUS FOR TREATING SUBSTANCES. CHARLES R. MABEE, Toledo, Ohio. Filed Feb. 12, 1916. Serial No. 77,996. 20 Claims. (Cl. 127—9.)



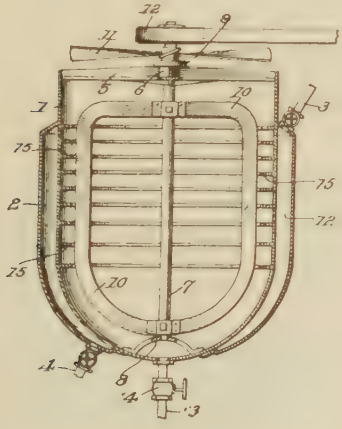
1. In an evaporating or condensing apparatus the combination with a container having an operating surface which is circular in cross section and from end to end intersects axial planes on straight lines, and having one end closed and a relatively large opening at the opposite end for copious discharge of vapors from the central region of the container, means for introducing fluid at a point near one end of the container, means for permitting discharge of treated material at a point near the other end of the container, means for relatively highly heating the wall of the container to rapidly form large volumes of vapors and gas, and power-driven means continuously rotating rapidly near said surface for positively engaging the material for forcing it radially, outward from the axis and cooperating with the container to force it circularly and longitudinally of the axis, said means being radially narrow and remote from the axis whereby they are adapted to maintain an approximately hollow, cylindrical stratum of the fluid with a quiet central zone communicating with the said relatively large discharge opening.

1,420,648. MULTIPLE-EFFECT APPARATUS. CHARLES R. MABEE, Toledo, Ohio. Filed Oct. 23, 1915. Serial No. 57,472. 20 Claims. (Cl. 127—18.)



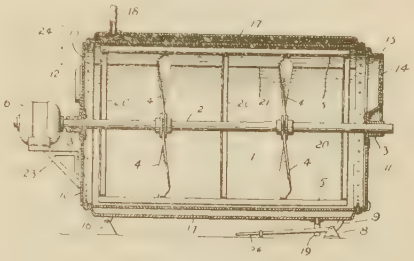
1. In a multiple effect evaporating apparatus, the combination of a plurality of end to end cylindrical containers, each of said containers having a surrounding jacket forming a heating chamber, said containers having an inlet for the material adjacent one end and outlet for the treated material adjacent the opposite end, and said containers having an end opening of sufficient size to permit vapors to freely and rapidly escape, means for introducing a heating medium into the heating jacket of one container sufficient to evaporate liquid constituents of the material, and the vapor end opening of said container being in communication with the heating chamber of a succeeding container, and the discharge outlet of said container being in communication with the material inlet of a succeeding container, and cooperating movable means in the respective containers constructed and arranged to apply the material as introduced on to the inner surface of the containers under centrifugal force and pressure, and to subject said material while in continuous layer formation to rapid rotatable and simultaneous endwise movement towards the discharge end thereof.

1,420,649. DEVICE FOR THE EVAPORATION OF LIQUIDS AND IN THE DRYING OF SUBSTANCES. CHARLES R. MABEE, Toledo, Ohio. Filed Dec. 15, 1913, Serial No. 806,889. Renewed Mar. 18, 1920. Serial No. 366,962. 13 Claims. (Cl. 127—9.)



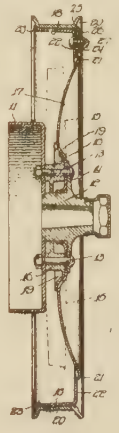
3. In an evaporating and drying device a tubular container having a substantially unobstructed outlet for the escape of vapors, rigid means internally of the container for positively communicating motion circumferentially thereof to the contents of the container, means on the interior wall of said container for supporting the contents, and means adjacent said unobstructed outlet for accelerating the escape of vapors and gases through the outlet.

1,420,650. CENTRIFUGAL DRIER. CHARLES R. MABEE, Toledo, Ohio. Filed Dec. 15, 1913, Serial No. 806,891. Renewed Mar. 1, 1919. Serial No. 280,144. 22 Claims. (Cl. 127—9.)



1. In a centrifugal drier, a horizontally disposed cylindrical container, means for applying heat externally thereto and means for applying a centrifugal and circumferential motion to the contents thereof, whereby a moving layer of material is formed on the wall of the container, and means within the container for expelling the vapors from the space within the layer of material.

1,420,651. DISK WHEEL. GEORGE H. FORSYTH, Harvey, Ill. Filed Jan. 31, 1921. Serial No. 441,151. 4 Claims. (Cl. 301—63.)

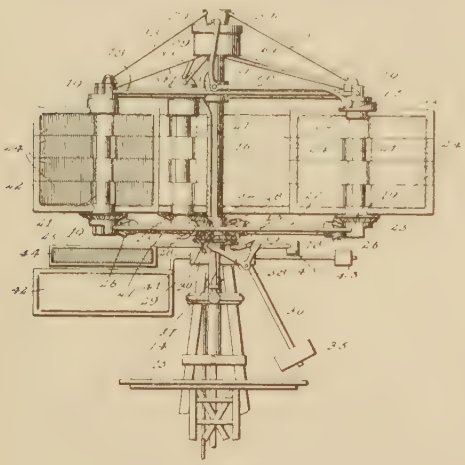


1. The combination with a standard hub construction including an integral hub flange and a removable hub plate spaced apart to accommodate spoke ends therebetween, of a filler member disposed within said space, and a metal disk secured to the hub flange upon the filler member and having a peripheral tire-carrying portion, whereby to utilize the standard wood wheel hub in a metal wheel construction, the filler member having a portion radially extending behind and serving as a rear abutment for that portion of the disk adjacent the flange.

1,420,652. WINDMILL. ROBERT A. FULLWOOD, Tucumcari, N. Mex. Filed Jan. 6, 1919. Serial No. 269,946. 4 Claims. (Cl. 170—25.)

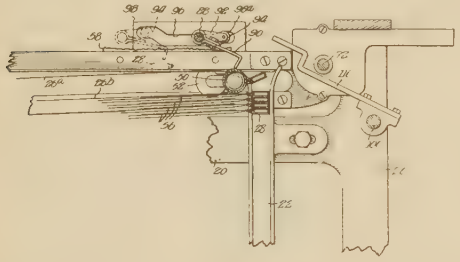
1. A windmill comprising a support, a vertically disposed sleeve mounted for rotation thereon, a main shaft mounted for rotation within and supported by the sleeve, a fan frame carried by the main shaft, vertically disposed fan blades mounted for horizontal pivotal movement within the frame, an arm extending radially from the

sleeve, a counterbalance vane, means connecting the vane and the radially extending arm, whereby movement will be imparted to the latter by the pivotal movement of the



vane and means connecting the sleeve and fan blades, whereby the position of the blades may be controlled, to control the speed of the mill.

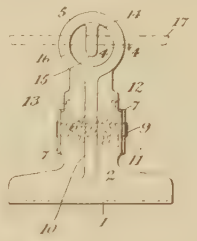
1,420,653. MECHANICAL SHEET STOP FOR SMUT-SHEET MACHINES. JAMES E. GILBERT and GLENN W. HARRIS, Chicago, Ill., assignors to Gilbert Slip Sheeting Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 30, 1920. Serial No. 355,115. 21 Claims. (Cl. 94—11.)



7. In mechanism of the class described, a print sheet support movable through the machine to a predetermined position of rest, a supporting bar for fastening the print sheet support in the last mentioned position, a stop finger carrying mechanism reciprocatable, generally parallel to the movement of the print sheet support during the last portion of its movement, fingers on said carrier mechanism pivotally mounted for movement into and out of engagement for the print sheet support, and a cam mechanism operated by the general movement of the machine which holds said fingers clear of the print sheet support until said supporting bar has passed said fingers and then permits said fingers to engage the print sheet support during the remainder of the movement of the finger carrying mechanism and the print sheet support to rest position.

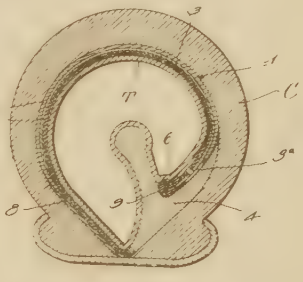
1,420,654. PAPER CLASP. JAMES W. GRANT, Bridgeport, Conn., assignor to Fred J. Kline, Long Island City, N. Y. Filed June 12, 1920. Serial No. 388,421. 2 Claims. (Cl. 24—84.)

1. The combination with a paper clasp embodying two members each formed by stamping out of sheet metal, having two ears, and each provided with a jaw, a pin through the ears, and a spring on the pin whereby the jaws are pressed together, of a ring-shaped handle at the upper part of one of said members, having a downwardly pointing hook springing from the upper part of the handle ring extending between the two members and having



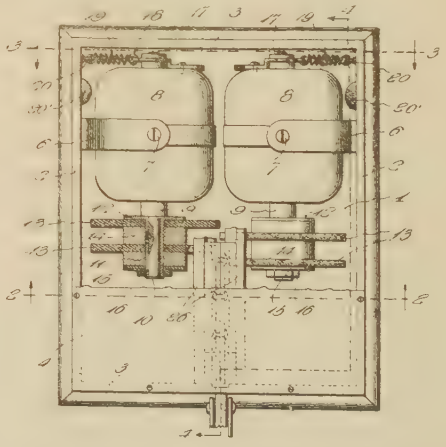
wedge-shaped spaces between the edges of the hole in the handle ring and the edges of the hook, in which spaces a cord on which the device is hung can be wedged.

1,420,655. INNER-TUBE PROTECTOR. WALTER C. GUILD, Marionville, Mo. Filed July 18, 1921. Serial No. 485,554. 3 Claims. (Cl. 152—18.)



1. A protector for the inner tube of a pneumatic tire comprising a substantially V-shaped anchoring ring for disposition inside of the casing, one side of said ring being adapted to bear against one side wall of the casing adjacent the bead, and a metallic armor for the inner tube adapted for disposition between the latter and casing, said armor being made up of a plurality of arcuate resilient sections arranged in overlapping relation and being movable with respect to one another, said sections being movably connected at one of their ends with said anchoring ring, the opposite ends of said sections being free, whereby they will approach said ring when the tire is deflated to prevent crushing of said sections.

1,420,656. RAZOR-HONING DEVICE. GEORGE GUTEKUNST and CHARLES MAG, Pittsburgh, Pa. Filed Mar. 29, 1920. Serial No. 369,553. 3 Claims. (Cl. 51—84.)



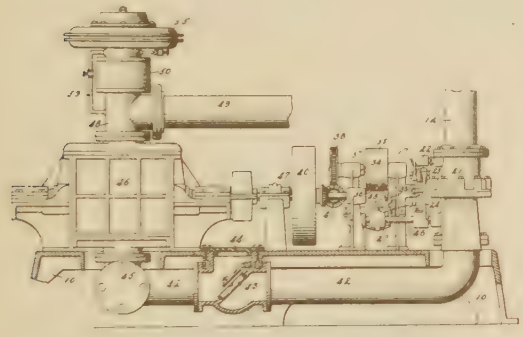
1. A device of the class described comprising a support, a pair of motors pivotally mounted to said support and

disposed side by side, opposing sharpeners fixed to the shafts of said motors at one of the ends thereof and movable toward and away from each other upon swinging movement of said motors upon their pivots, coil springs connected at one of their ends to said support and at their other ends to the other ends of said motors for yieldably holding the latter in the position where said sharpeners are close together, arms carried by said motors and provided with finger pieces adapted to be engaged to swing said motors upon their pivots against the tension of said springs, and a blade carrier operable between said sharpeners.

1,420,657. CORD TIP. JAMES P. KELLY, New York, N. Y. Filed Sept. 2, 1921. Serial No. 497,867. 5 Claims. (Cl. 24—143.)

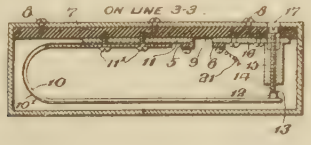
1. A cord tip comprising an inner member having a pointed shank with inclined spikes and an outer sleeve for embracing the cord around said spikes.

1,420,658. AUTOMATIC AIR AND GAS MIXING MACHINE. WILLIAM W. KEMP and WILLIAM H. VAN HORN, Baltimore, Md. Filed Feb. 9, 1915. Serial No. 7,138. 22 Claims. (Cl. 48—186.)



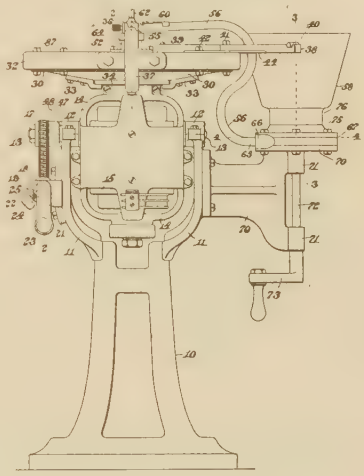
1. In a machine as specified; air and gas inlets; a valve for each inlet; a connection between the valves to maintain one of the same open while the other is closed and admit one fluid at a time to the machine; means for periodically shifting the valves to change the fluid delivered to the machine; and means for changing the period of shifting of the valves.

1,420,659. THERMOSTAT. EDMUND B. LENNIG, San Francisco, Calif., assignor to Thermic Engineering Co., San Francisco, Calif., a Corporation of California. Filed Aug. 16, 1917. Serial No. 186,568. 2 Claims. (Cl. 200—138.)



1. In a device of the character stated, a body, a plate of insulating material secured thereto, terminals mounted on said plate and projecting outwardly from said body, a thermostatic blade casing attached to said body and receiving the ends of said terminals, and a thermostat blade in said casing formed of U-shape and having one of its limbs attached to a fixed support and its other limb coacting with an adjusting device.

1,420,660. CENTRIFUGAL GUN. LEVI W. LOMBARD, Mattapan, Mass., assignor to Centrifugal Gun Corporation, a Corporation of Massachusetts. Filed Mar. 11, 1918, Serial No. 222,478. Renewed Nov. 9, 1921. Serial No. 514,120. 26 Claims. (Cl. 89—10.)

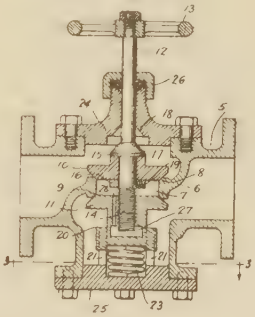


1. In a device of the class described, a revoluble plate; a spiral rib on one face thereof; a hardened grooved member set into the inside wall of said rib; and means for directing a ball to the inner end of said spiral rib.

1,420,661. FOOD PRODUCT. SIGMUND LUFT, Maywood, Ill. Filed Jan. 8, 1921. Serial No. 435,949. 10 Claims. (Cl. 99—10.)

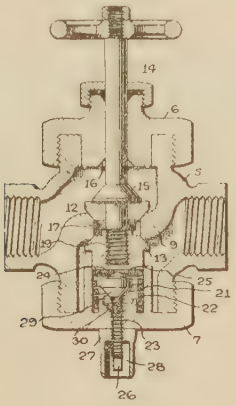
1. The process of producing a food product which consists in adding a granular or whole starchy material to a quantity of water, agitating the while, curing the starchy material, subjecting the mixture to heat at a low pressure and maintaining the same to a point short of initial gelatinization and finally roasting the starchy material.

1,420,662. VALVE. JAMES D. MAXWELL, Brooklyn, N. Y. Filed Apr. 15, 1921. Serial No. 461,493. 4 Claims. (Cl. 277—34.)



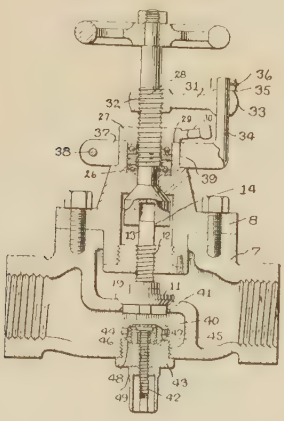
1. In a valve, a valve casing having a wall with a passage therethrough and valve seats at the opposite ends of said passage, valve elements at the opposite sides of said wall for cooperation with said valve seats, a valve operating stem having a screw-threaded connection with one of the valve elements, said valve element being chambered to receive the stem and having a port extending from such chamber to the face of the valve.

1,420,663. VALVE CONSTRUCTION. JAMES D. MAXWELL, Brooklyn, N. Y. Filed June 8, 1921. Serial No. 476,030. 15 Claims. (Cl. 277—34.)



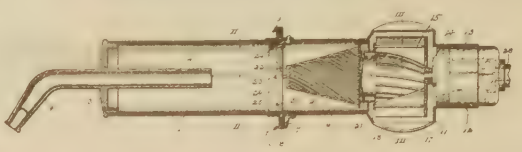
7. In a valve construction, a valve casing having top and bottom covers each provided with a seat and a partition having a passage therethrough with oppositely facing valve seats, oppositely operating valves for engagement with said seats, a stem operating through one of the covers and having a shoulder to engage the seat on said cover, one of the valves being mounted to move longitudinally with said stem and the other valve having a screwthreaded connection with the stem, a spring operated on said screw connected valve and a screw mounted in the other cover in position to engage said valve and having a shoulder to engage the seat on said cover, said cover also having a guide for directing the screw connected valve non-rotatably toward and away from its seat and the valve engaging screw having a lock nut disposed externally of the valve casing.

1,420,664. NONRETURN VALVE. JAMES D. MAXWELL, Brooklyn, N. Y. Filed June 8, 1921. Serial No. 476,031. 19 Claims. (Cl. 251—139.)



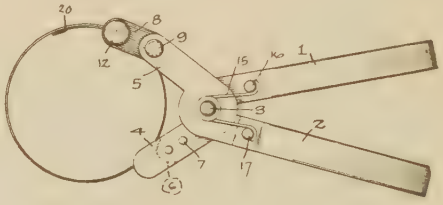
6. A non-return valve comprising a casing provided with a valve seat, a check valve guided to cooperate with said valve seat, an adjustable stop for predetermining the opening movement of the check valve, and operating stem for setting said stop and a gage operable in accordance with the movements of said stem to indicate the extent of movement accorded the check valve and including a movable gage element having a screwthreaded connection with the stem and a fixed gage element supported in cooperative relation to said movable element.

1,420,665. CENTRIFUGAL DUST SEPARATOR. JOHN W. NEWCOMBE, Detroit, Mich. Filed May 10, 1920. Serial No. 380,065. 11 Claims. (Cl. 183—77.)



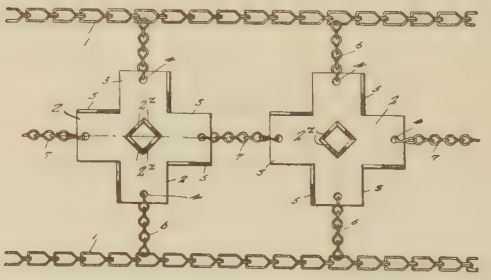
1. In a device of the character described, the combination with a casing having an inlet and an outlet, of a conical rotary separator member in said casing having an open end closing the passage to the outlet and arranged with its end of smaller diameter toward the inlet, the conical wall of said member being formed with a plurality of openings with the portions between said openings continuous throughout the length of said wall, means for forcing a flow through the casing and separator member, and power means for rotating the separator member at a rate of travel proportionate to and greater than the rate of travel of the particles carried by the flow, whereby the portions of said separator member between said openings are caused to intercept said particles and convey them longitudinally of and toward the large end of the separator member.

1,420,666. CAN OPENER. GEORGE A. PATTBERG, San Leandro, Calif. Filed Apr. 16, 1921. Serial No. 461,888. 4 Claims. (Cl. 30—3.)



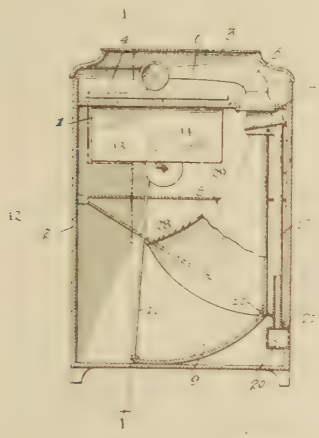
1. A device such as described comprising a pair of opposed handle members pivoted together; a cutting element projecting laterally from the face of the end of one of said members and a serrated projection on the end of the other member.

1,420,667. ANTISKID MEANS FOR AUTOMOBILE WHEELS. WILBERT I. RANDLE, Flint Stone, Md. Filed Feb. 26, 1921. Serial No. 448,134. 2 Claims. (Cl. 152—14.)



1. A non-skid attachment for wheels, comprising a cruciform plate of metal having at corresponding sides of its arms barb-flanges, one to each arm, and also having apertures for the connection of means to hold the attachment on a tire.

1,420,668. PHONOGRAPH. SEVERIN JOEL ROGNLIE, Lewistown, Mont. Filed June 10, 1920. Serial No. 387,926. 1 Claim. (Cl. 274—2.)

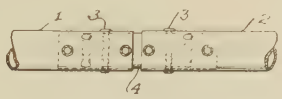


The combination with a phonograph casing, of a downwardly and forwardly directed amplifying horn arranged entirely within the casing and having its lower end contacting with the sides of the casing, a longitudinally curved sound board hinged to the horn at the rear side of the same and extending forwardly for directing the sound waves forwardly, a pair of flexible elements secured to opposite sides of said sound board, and means for directing said flexible elements vertically for controlling said sound board, said sound board having contact with the sides of said casing and being arranged entirely within the casing.

1,420,669. PIPE JOINT. JOHANN SCHÜTTE, Zeesen-Koenigs-Wusterhausen, near Berlin, Germany, assignor, by mesne assignments, to American Investigation Corporation, New York, N. Y., a Corporation of Maryland. Filed Apr. 25, 1919. Serial No. 292,767. 7 Claims. (Cl. 287—54.)

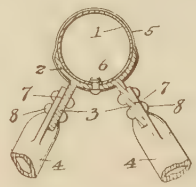
1. A joint comprising two members adapted to be secured together by rivets passed through them, one of said members being tubular and having an open end, but the interior of such member being inaccessible to the introduction of rivets thereinto through said end, means being provided in said tubular member whereby the interior thereof is rendered accessible to the rivets from the exterior thereof, to permit the rivets to be introduced into the interior of said member, and subsequently passed through said member to be headed.

1,420,670. PIPE JOINT. JOHANN SCHUETTE, Zeesen-Koenigs-Wusterhausen, near Berlin, Germany, assignor, by mesne assignments, to American Investigation Corporation, New York, N. Y., a Corporation of Maryland. Original application filed Apr. 25, 1919, Serial No. 292,767. Divided and this application filed Feb. 20, 1922. Serial No. 537,663. 4 Claims. (Cl. 287—108.)



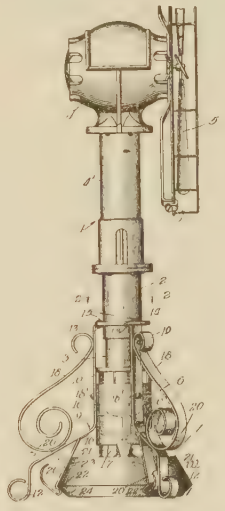
4. A joint comprising a plurality of members to be secured together, hollow rivets crossing said members, and flanged or headed on the exterior of said members.

1,420,671. PIPE JOINT. JOHANN SCHUETTE, Zeesen-Koenigs-Wusterhausen, near Berlin, Germany, assignor, by mesne assignments, to American Investigation Corporation, New York, N. Y., a Corporation of Maryland. Original application filed Apr. 25, 1919, Serial No. 292,767. Divided and this application filed Feb. 20, 1922. Serial No. 537,666. 5 Claims. (Cl. 287—54.)



1. In a joint connecting tubular members, a coupling member intermediate between the tubular members, said coupling member having a web projecting therefrom, the other tubular member being riveted to the web on said coupling member; and means carried by the former tubular member adapted to hold the coupling member to said tubular member.

1,420,672. HEAT MOTOR. WILLIAM J. H. STRONG, Chicago, Ill. Filed May 6, 1918. Serial No. 232,820. 7 Claims. (Cl. 60—24.)

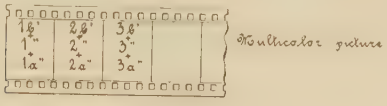


1. In a hot air motor, an open work stand for supporting the motor at a proper height and for supporting a fuel front below the motor, said stand comprising a plurality of relatively flat leg members arranged to be removably attached at their upper ends to the body of the motor, a guard cylinder on the lower end of the motor between the legs and to which the legs are removably attached, and a shouldered font holding spring member within each leg and adapted to yieldingly hold a fuel font in place.

1,420,673. METHOD OF PRODUCING COLOR FILMS. KALMAN WARGA, New York, N. Y., assignor to Pyrocolor Corporation, a Corporation of Virginia. Filed Sept. 22, 1921. Serial No. 502,352. 3 Claims. (Cl. 101—149.)

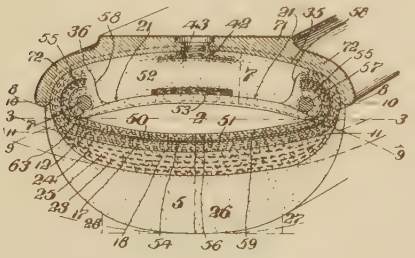
1. The method of producing a color photograph or color motion picture film from a black and white negative and from suitable color-selection negatives, which consists in, first, making a black and white positive from said black and white negative, second, making photomechanical printing plates from said color-selection negatives, and,

third, printing mechanically from each of said plates on said black and white positive in register with the black



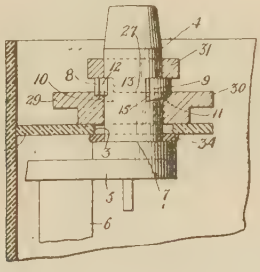
and white picture in an aqueous color complementary to the color of the screen used in taking the corresponding color-selection negative.

1,420,674. RESILIENT TIRE. JOSEPH STOKES WILLIAMS, Riverton, N. J. Filed Nov. 13, 1917, Serial No. 201,878. Renewed Oct. 1, 1921. Serial No. 504,672. 8 Claims. (Cl. 132—18.)



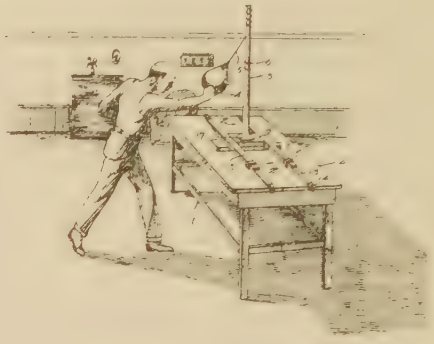
6. A tire comprising an annular body having, a transversely disposed cushion adapted to be secured to a support and having its outer perihphery in flattened arch formation, a universely flexible tension belt transversely disposed in arch formation on transverse section lines with curvatures at the sides forming abutments substantially on the major transverse axis and yieldingly supported by said cushion and forming therewith a transversely disposed clearance space, and a tread encircling said belt.

1,420,675. STORAGE-BATTERY TERMINAL. EDWARD F. ANDREAE, Newark, N. J., assignor to General Lead Batteries Company, a Corporation of Delaware. Filed Sept. 4, 1918. Serial No. 252,525. 6 Claims. (Cl. 204—29.)



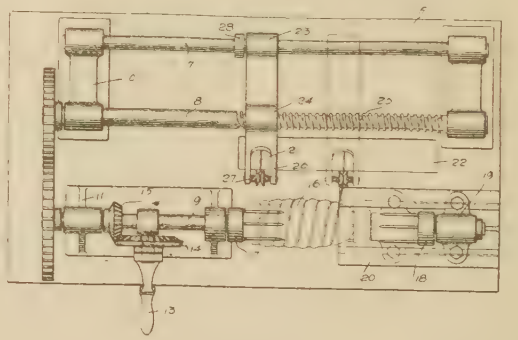
1. In a detachable connection for a terminal and cover, the combination with a leaden terminal having a flange and segmental cam surfaces, a cover having an opening through which the terminal passes, a securing means comprising a ring having segmental cam surfaces engaging the aforesaid cam surfaces whereby said ring is forced longitudinally of the terminal toward said cover as it is turned, whereby said cover is clamped between said ring and flange, and means for locking said ring in securing position.

1,420,676. SUPPORT. EMMETT D. ANGELL, Milwaukee, Wis. Filed Dec. 23, 1920. Serial No. 432,732. 3 Claims. (Cl. 45—75.)



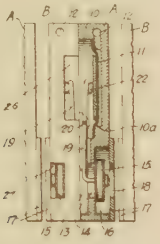
1. In a device of the character stated, the combination with a table top, of a support including a base, a threaded socket in the base, spring strips each having one end overlying the base, hooks on the other ends of the strip engageable wit hthe edges of the table top, and means securing the strips together to hold the base against the table top.

1,420,677. BINDING MACHINE. GUY ARDIZZONI, New York, N. Y. Filed Feb. 15, 1921. Serial No. 445,187. 2 Claims. (Cl. 242—7.)



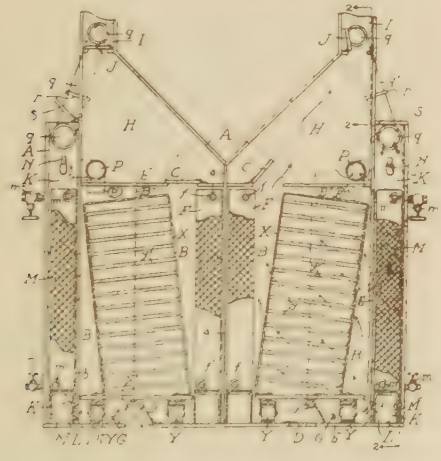
2. A binding machine including a guide shaft, a bracket having one of its ends slidably encircling said guide shaft, a second shaft formed with a worm portion disposed parallel to said first named shaft, said bracket being formed with a cutout portion presenting semi-circular screw threads, of a pitch corresponding to the threads of the worm, and adapted to be brought into engagement with the same, said bracket presenting a fork at its outer end, a pair of spring pressed guiding elements carried by said fork, rotatable impaling heads positioned to one side of said second shaft, means for connecting one of said impaling heads to said second shaft, and means connected to one of said impaling heads for operating and synchronizing the movement of said secondary shaft and impaling heads.

1,420,678. PNEUMATIC-ACTION UNIT. STEPHEN BATTNER, Brooklyn, N. Y. Filed Aug. 25, 1920. Serial No. 405,804. 5 Claims. (Cl. 84—50.)



1. A series of valve units arranged in pairs, the units of each pair being formed with a vacuum chamber common to both units, and a pair of diaphragms in said chamber and having their axes coincident with each other at right angles to said chamber.

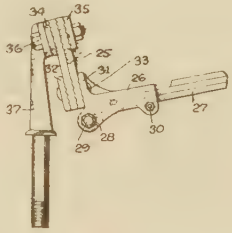
1,420,679. PROCESS AND APPARATUS FOR DEHYDRATING. OTTO Q. BECKWORTH and OLIVER J. HOBSON, Chicago, Ill., assignors, by mesne assignments, to Anhydrous Food Prducts Company, a Corporation of Delaware. Filed Jan. 27, 1919. Serial No. 273,228. 15 Claims. (Cl. 34—39.)



14. In an apparatus of the class described, a dehydrating chamber adapted to receive material to be treated, means to maintain a vapor medium of high temperature and density around said material to heat and moisten the same, means to apply radiant heat to said vapor and material, means to remove a portion of said vapor medium from said chamber, means to add to said chamber additional vapor of high temperature and less density than said first named vapor medium, means to circulate through said chamber vapor and air, and means to control the temperature thereof to gradually cool and condition said material.

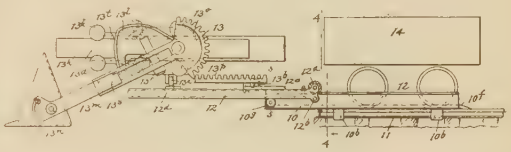
1,420,680. SPRING SUSPENSION. HARVEY W. BELL, Yonkers, and HAZEN L. HOYT, Jr., Great Neck, N. Y. Filed May 17, 1921. Serial No. 470,244. 20 Claims. (Cl. 267—54.)

1. In spring suspensions for vehicles, the combination with a leaf spring provided with an eye at the end thereof, of a bracket channeled to receive and fit over the end of the spring and having side walls perforated in line with the eye in the end of the spring, a bolt extending through said perforations and eye to fasten the bracket on the spring, clamp members carried by said bracket, a flexible supporting link held by said clamp members



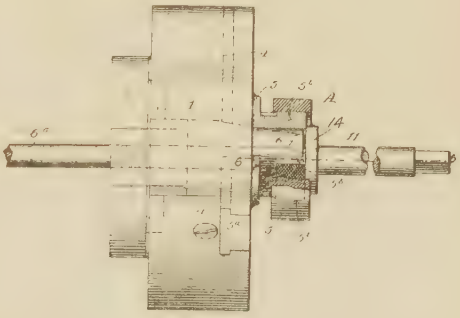
and a bracket for attachment to another member of the vehicle having clamp members engaged with another portion of said link.

1,420,681. LOADING MACHINE. FRANK BILLINGS and ROBERT P. GREENLEAF, Cleveland, Ohio; said Greenleaf assignor to said Billings. Filed Feb. 25, 1918. Serial No. 218,929. 8 Claims. (Cl. 214—41.)



1. In a loading machine, a sub-base adapted to rest on a track, an intermediate base supported on the sub-base nad movable along the same, said intermediate base being stationary during the normal operation of the machine, a digging and conveying member mounted on the intermediate base and means for giving said member forward filing strokes variable in length.

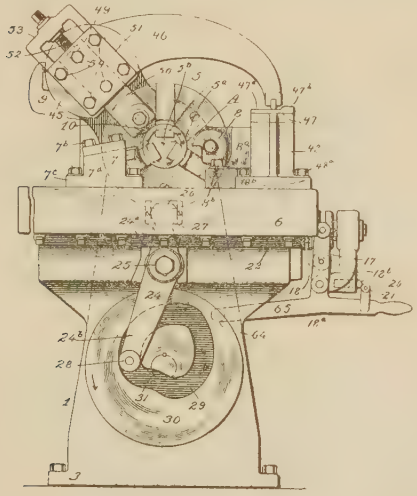
1,420,682. CHUCK. FRED E. BRIGHT, New York, N. Y. Filed Apr. 23, 1917, Serial No. 163,823. Renewed Sept. 9, 1921. Serial No. 499,549. 3 Claims. (Cl. 279—2.)



1. In an expanding chuck for holding and supporting work pieces, the combination of a body provided with an axial opening therethrough, work holding jaws mounted for radial movement on said body and provided with active axial portions disposed at intervals around said opening and formed on their outer sides with work gripping surfaces adapted to bear on the interior of the work and fixedly hold the same, said jaws having on their inner sides engaging surfaces sloping rearwardly and outwardly, and an actuating plunger snugly fitting the said axial opening in the body and adapted to be advanced and retracted therein, said plunger being provided with longitudinal grooves in which the inner sloping

surfaces of the axial portions of the jaws fit, the bottoms of said grooves sloping outwardly and rearwardly and bearing against the correspondingly sloping surfaces of the jaws, and the side walls of the grooves bearing against the sides of the axial portions of the jaws and acting in conjunction therewith to exclude dust from the interior of the chuck, the form and relation of the parts being such that when the plunger is advanced between the jaws, the latter will be expanded into firm engagement with the interior of the work and the plunger will give direct support to the overhanging active portions of the jaws.

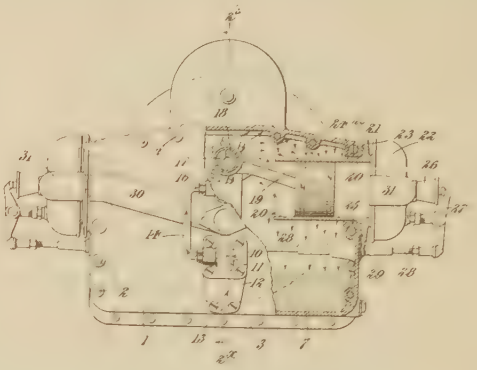
1,420,683. APPARATUS FOR MACHINING WORK PIECES. FRED E. BRIGHT, New York, N. Y. Filed May 7, 1917, Serial No. 166,889. Renewed Sept. 9, 1921. Serial No. 499,550. 22 Claims. (Cl. 29—27.)



1. In a machine of the type described, the combination of a rotary work holder adapted to hold an annular work piece with its side face and axially extending surface exposed, a tool carrying slide movable transversely relatively to the axis of rotation of the work holder, a roughing tool and a finishing tool carried by said slide and spaced from each other in the direction of movement of the slide, said tools adapted in the movements of the slide to traverse the opposite portions of the side of the work in succession, an axially movable tool carrying slide, an operating tool mounted thereon and adapted in the movements of the slide to advance and traverse the axially extending surface of the work, and retreat for another operation, an operating member for the tool carrying slides, and connections between said operating member and the respective slides, said connections being of a form to cause one of the transversely movable tools to advance and act on the side of the work, simultaneously with the advance of the axially movable tool, and the other transversely movable tool to advance and act on the side of the work simultaneously with the retreat of the axially movable tool.

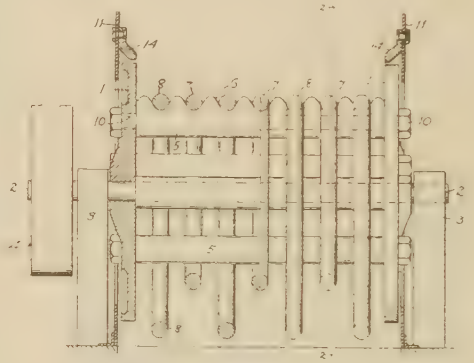
1,420,684. COOLING INTERNAL-COMBUSTION ENGINE. GRANVILLE BRADSHAW, Sunbury-on-Thames, England. Filed July 12, 1921. Serial No. 484,217. 5 Claims. (Cl. 123—170.)

1. In combination in an internal combustion engine, a crank shaft case enlarged to substantially enclose an engine cylinder, thereby providing greatly increased heat dissipating surface, an engine cylinder extended sufficiently within said casing to expose to the interior of said casing a part of the cylinder subject to the heat of explosion, and means for directing a moving film of cooling oil over said heated part of the cylinder whereby



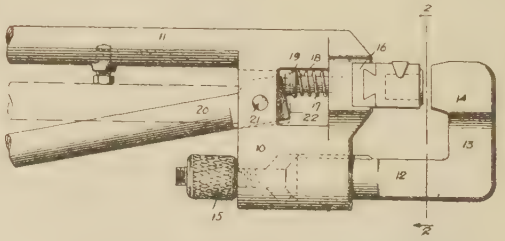
the heat of the cylinder is continuously and rapidly conducted away and the cylinder maintained at a lower temperature.

1,420,685. REVOLVING SCREEN OR GRIZZLY. HENRY KENYON BURCH, Warren, Ariz. Filed May 16, 1921. Serial No. 469,867. 6 Claims. (Cl. 83—56.)



1. A revolving screen comprising a rotating supporting means, a plurality of screen elements extending in the direction of rotation of said supporting means, and supported at their upper ends on said means, said screen elements extending at substantially the same level at their upper parts to form a receiving portion, and extending at different levels at their lower parts forming a discharging portion with relatively larger discharge openings.

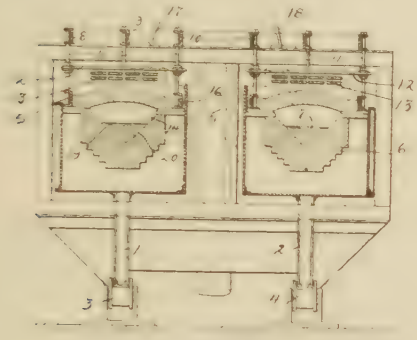
1,420,686. STAMPING DEVICE. JOHN ALPHEUS CAMPBELL, Carbondale, Ill. Filed Apr. 8, 1921. Serial No. 459,589. 2 Claims. (Cl. 101—3.)



1. A device of the class described, including a head having a handle, a stamp having a shank adapted to be reciprocated in said head, an anvil element adjustable

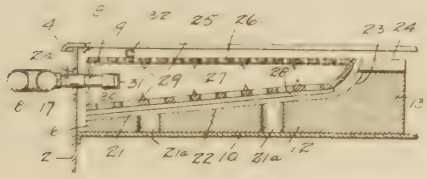
on said head and extending laterally in front of the head, a lever pivoted for movement toward or from said handle and formed with a transversely bevelled front end adapted to engage said shank and move the shank toward the anvil element, and a spring on said shank for restoring the stamp after movement toward the anvil element.

1,420,687. ELECTRIC FURNACE. SAMUEL N. CASTLE, New Rochelle, N. Y. Filed Aug. 13, 1918. Serial No. 249,622. 6 Claims. (Cl. 204—64.)



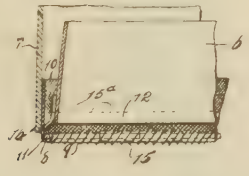
1. An electric furnace of the induction type having a core, a crucible having sloping walls making angles of not less than 15° with the vertical for containing the bath interlinked with said core, windings interlinked with said core, and means for supporting all of the windings at a higher level than said bath.

1,420,688. COOK STOVE. LEOPOLD B. DE LAITTE, San Francisco, Calif., assignor, by mesne assignments, to May Erdin, San Francisco, Calif. Filed Apr. 21, 1920. Serial No. 375,427. 15 Claims. (Cl. 126—39.)



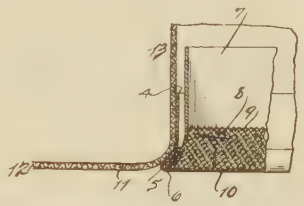
1. A gas cook stove having a combustion chamber, a heat-insulating bed arranged in said chamber, and an incandescent heating body disposed upon the bed below the top plane of the stove.

1,420,689. HAT SWEATBAND. JAMES T. DOWDALL, Glen Morris, N. Y. Filed Nov. 23, 1920. Serial No. 425,944. 3 Claims. (Cl. 2—32.)



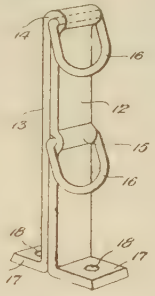
1. In a hat, a sweat band, a strip affixed to said band and a reed carried by the strip, the reed adapted to tension the strip outward from said band to form a cushion between the reed and band.

1,420,690. SWEATBAND FOR STRAW AND OTHER HATS. JAMES T. DOWDALL, Glen Morris, N. Y. Filed June 30, 1921. Serial No. 481,506. 3 Claims. (Cl. 2—32.)



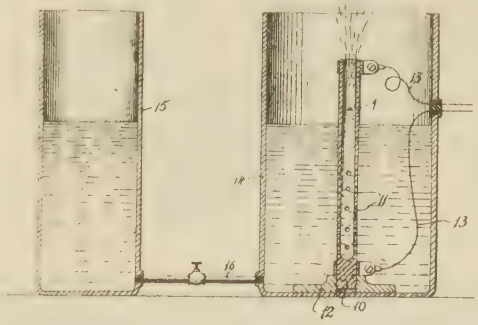
1. A sweat band for hats, consisting of a fabric member, a leather member, and a woven straw member secured together, the straw member connecting the fabric and leather members.

1,420,691. BOLSTER STAKE. JOSEPH PELNAR, Sr., Deerfield, Kans. Filed Aug. 21, 1920. Serial No. 405,043. 2 Claims. (Cl. 280—143.)



1. A bolster stake formed from a single strip of metal bent centrally upon itself to provide parallel contacting members, the connected portion of said members being formed into an eye, a second eye located intermediate the ends of the stake and formed by bending the said member outwardly into substantially semi-circular form, apertured securing ears formed by bending the extremities of the strip outwardly and rings located within the eyes.

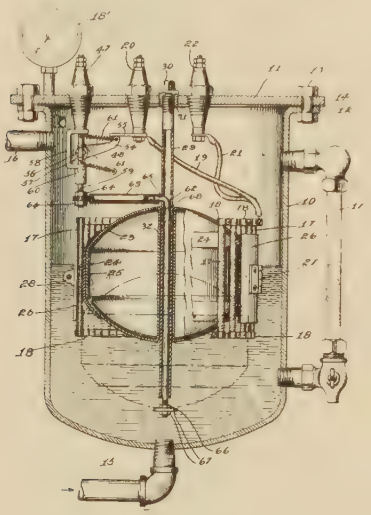
1,420,692. ELECTRIC WATER HEATER AND STEAM GENERATOR. HYMAN E. COHEN, Brooklyn, N. Y. Filed Oct. 12, 1920. Serial No. 416,399. 28 Claims. (Cl. 219—41.)



1. The method of generating steam which consists in providing an electrically conducting heating element, in immersing said element in a body of water with an end of said element exposed to the medium above the water level, said element adapted to isolate a portion of the water, the water coming in direct contact with the walls or surfaces of the electrically conducting heating ele-

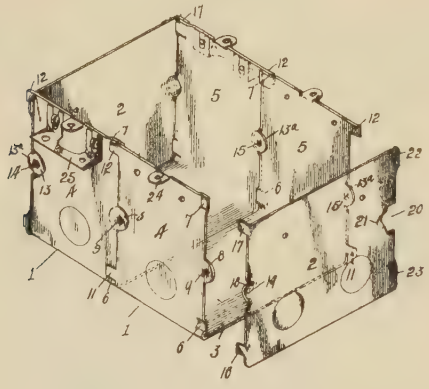
ment and in passing a current through the said element for the heating of the same substantially throughout its length, the parts being so arranged that the isolated water will be increasingly heated as it moves up in the element and issue as steam from the exposed end thereof.

1,420,693. ELECTRIC BOILER. HYMAN E. COHEN, Syracuse, N. Y. Filed Mar. 4, 1922. Serial No. 540,968. 28 Claims. (Cl. 219—38.)



1. In an electric boiler, a boiler casing, a float movable therein and adapted to follow the changing liquid level in the boiler, heating elements carried by the float and means for guiding the float in its movement in the boiler, the said means comprising a stem slidably receiving the said float.

1,420,694. SWITCH BOX. WILLIAM M. GORE, Toledo, Ohio, assignor of one-fourth to John H. French, one-fourth to Walter F. Tant, one-fourth to Milton T. Watson, and one-fourth to Joseph G. Hamblen, Jr., all of Detroit, Mich. Filed Jan. 12, 1920. Serial No. 350,754. 5 Claims. (Cl. 247—16.)

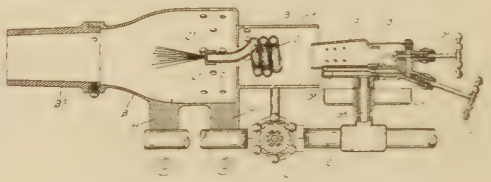


1. In a box of the class described, a plurality of body section of U-form each having its side walls provided at one pair of diagonally opposite end edges with depressions adjacent the upper and lower corners thereof and with a tongue having a detent, and the other pair of diagonally opposite end edges having spurs projecting therefrom for lapping the end edge of an adjoining section within the corner depressions thereof, and having a portion adapted to be lapped by a tongue of an adjoining section and provided with a recess for receiving the detent of the tongue.

1,420,695. DECIMAL-POINT DEVICE FOR CHART READERS. GEORGE ORIE GRAY, Butte, Mont. Filed Feb. 3, 1921. Serial No. 442,135. 2 Claims. (Cl. 235—86.)

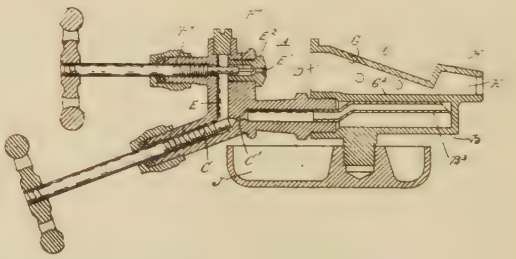
1. The combination with a chart and rollers supporting the same, of a data bearing plate of elongated formation having one end provided with a rack, a shaft having a pinion engaging said rack, and a bar having covering plates adapted to partially conceal the data on said plate, said bar being provided with a rack, a second pinion secured on said shaft and engaging said second named rack, and an operating rod connected with said shaft.

1,420,696. TORCH BURNER. OTTO J. GROEHN, Detroit, Mich., assignor to Clayton & Lambert Manufacturing Company, Detroit, Mich., a Corportion of Michigan. Filed Feb. 14, 1921. Serial No. 444,727. 5 Claims. (Cl. 158—33.)



1. In a burner for torches or the like, the combination with a casing a combustion chamber located at one end of said casing, a main fuel nozzle in said combustion chamber, a coil for supplying fuel to said nozzle located in the rear of said nozzle and a supplemental burner for heating said coil and means dependent of said coil for supplying a fuel to said main fuel nozzle.

1,420,697. WIDE-MOUTH TORCH BURNER. OTTO J. GROEHN, Detroit, Mich., assignor to Clayton and Lambert Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 25, 1921. Serial No. 464,332. 5 Claims. (Cl. 158—33.)

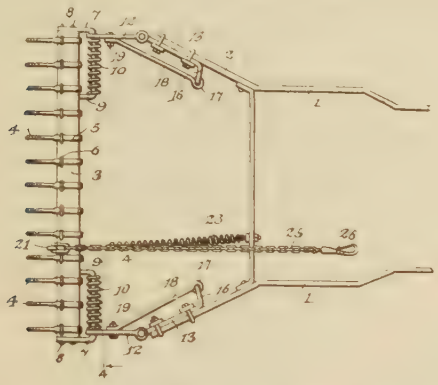


1. In a blow torch, a burner comprising a discharge orifice, a combustion chamber located in advance of said orifice, said combustion chamber having a downwardly and forwardly inclined wall and having forwardly and outwardly inclined side walls.

1,420,698. WEEDER AND PULVERIZER. HERMAN HANSON, Garfield, Minn. Filed Oct. 1, 1921. Serial No. 504,818. 2 Claims. (Cl. 97—44.)

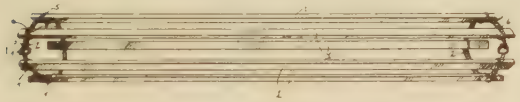
1. In combination, a cultivator provided with rearwardly extending diverging arms, an attachment therefor

consisting of a beam, U-shaped rods secured to the ends of the beam, springs mounted on the rods, attaching means pivotally mounted on the rods and including a pair of hinged leaves one of which being provided with a slot,



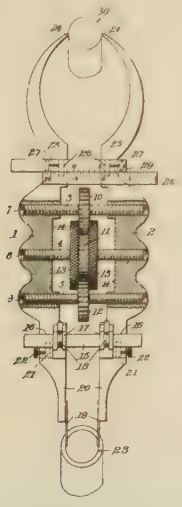
means for attaching the other leaf rigidly to the arms of the harrow, a brace rod pivotally mounted on the last mentioned leaf, and a bolt passing through the slot of the other leaf and the brace rod so as to regulate the angle between the two leaves of each attaching means.

1,420,699. CARRYING RACK FOR AUTOMOBILE CURTAINS. JOSEPH HERRMANN, Buffalo, N. Y. Filed Sept. 14, 1921. Serial No. 500,558. 2 Claims. (Cl. 217—49.)



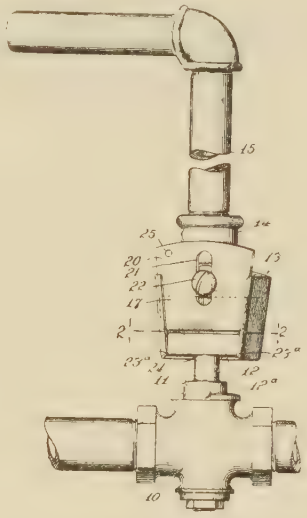
1. As a new article of manufacture a curtain carrying rack of skeleton permanently cylindrical form comprising a series of spaced parallel longitudinal bars and split circular bands serially connecting the bars, said bands being of substantially annular form with their ends normally unsecured and being composed of relatively stiff but resilient material, each band being provided with co-operating terminal fastening parts and one of said bars serving for the attachment of the rack to a supporting part.

1,420,700. CALIPERS. ALFRED W. HOFFMAN, New York, N. Y. Filed Feb. 10, 1921. Serial No. 443,837. 6 Claims. (Cl. 33—163.)



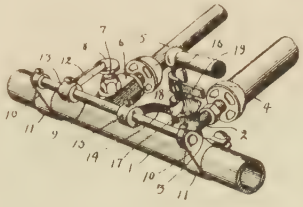
1. In calipers, the combination with parallel members, of means for adjusting said members toward and away from each other, a cross bar extending from one member across the other, there being a groove in said last mentioned member to fit said cross bar for maintaining said members in parallelism during adjustment, and a bracket bridging said groove for retaining the cross bar therein.

1,420,701. WRENCH FOR SHUT-OFF VALVES OR THE LIKE. KEVA HOFFMAN, Chicago, Ill. Filed Feb. 23, 1921. Serial No. 447,098. 9 Claims. (Cl. 81—121.)



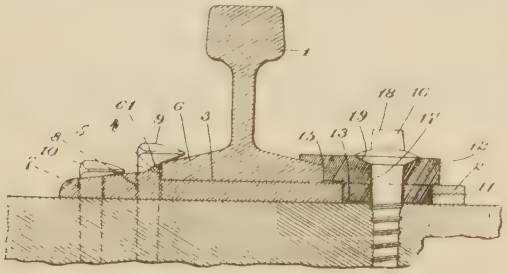
1. A wrench for shut-off valves, or the like, having a U-shaped socket formed by providing a back member adapted to bear against one side of the cross arm of the valve stem and means at the front side adapted to bear against the other side of said cross arm when the socket is in operative position on the valve, bridging means at the bottom and at each end extending from said back member to said means at the front side, the space between said bridging means being sufficient to receive said cross arm, when it is presented endwise thereto, and the neck of the valve stem, said means at the front side comprising supporting members at each front corner, and means associated with said supporting members adapted to bear against the adjacent side of said cross arm.

1,420,702. AUTOMATIC GAS-CONTROLLING DEVICE. EDWARD A. T. HOLDEN, Duluth, Minn. Filed Apr. 16, 1921. Serial No. 461,861. 2 Claims. (Cl. 158—115.)



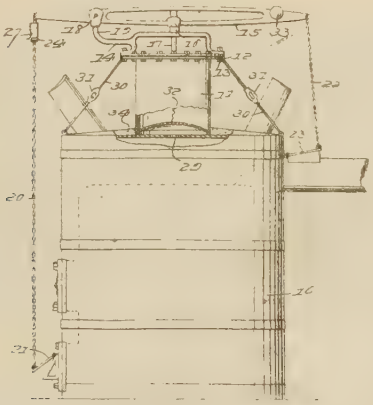
1. The combination with a gas burner manifold pipe having a burner valve connected therewith and a pilot light valve connected therewith, of a rotatable shaft mounted adjacent the manifold and parallel therewith, an arm attached to the shaft for rotating same extending towards and adjacent the burner valve, means upon the stem of the burner valve for engaging said arm and rocking the shaft, and an arm rigidly carried by the shaft adjacent the pilot light valve and engaging the stem of same, substantially as and for the purpose described.

1,420,703. ANTICREEPING DEVICE. WILLIAM W. HOLLAND, Chicago, Ill. Filed Mar. 15, 1922. Serial No. 543,902. 2 Claims. (Cl. 238—304.)



1. An anti-creeping device consisting of a tie plate having a shoulder at one end with a bearing surface parallel to and engaging the lateral edge of the rail, the shouldered portion having an aperture adjacent the bearing surface to receive a spike to hold the plate and take over the edge of the rail, the other end of the plate having a socket, a cam with a heel integral therewith, the dimensions of the heel approaching that of the cam, the heel resting in the socket and means for securing the cam to the tie in the form of an elongated member with a head passed through the cam into the tie.

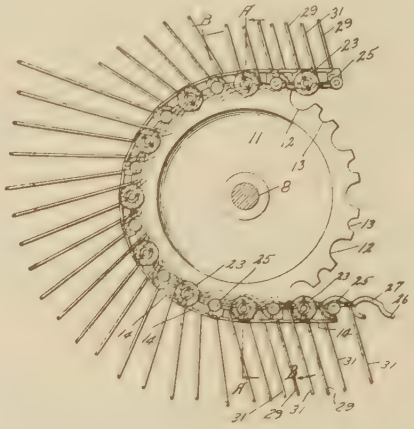
1,420,704. DAMPER-REGULATING MEANS FOR FURNACES. WILLIAM H. HOLT, Omaha, Nebr. Filed Feb. 24, 1920. Serial No. 360,740. 3 Claims. (Cl. 236—16.)



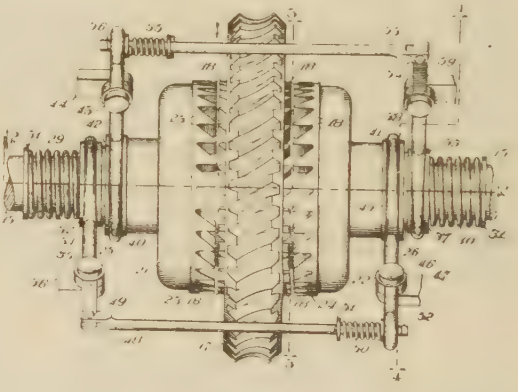
1. The combination with a furnace having a top and having a damper and a check draft, of an expansion chamber mounted upon the top of the furnace, there being a perforation whereby hot air may pass from the furnace into contact with the expansion chamber, a diaphragm forming the upper end of the expansion chamber and flexed by the expansion or contraction of the air within the expansion chamber, a lever associated with the expansion chamber and carrying a counterweight, an operative connection between said lever and the diaphragm whereby the lever will be shifted by the flexing of the diaphragm, flexible connections between the opposite ends of the lever and the check draft and damper respectively, and means whereby one of said flexible connections may be adjusted as to length whereby to secure a variable opening of the element to which it is connected.

1,420,705. CHAIN. GEZA HORVATH, Highland Park, Mich. Filed Aug. 20, 1921. Serial No. 494,007. 17 Claims. (Cl. 198—189.)

4. The combination of drive members, articulated driven members trained about said drive members, spacers carried by said driven members, rollers supporting said driven members relative to said drive members and establishing a driving relation, and means carried by said driven members and engaging said drive members to establish a defined angular relation between said driven members when adjacent said drive members so as to maintain said spacers in a defined angular and spaced relation.



1,420,706. DIFFERENTIAL MECHANISM. IRVIN HUPP, Chicago, Ill., assignor to Flexo Motive Corporation, a Corporation of Delaware. Filed May 2, 1919. Serial No. 294,133. 16 Claims. (Cl. 74—7.)



6. Differential mechanism, comprising, in combination with a sectional driven member, a power-imparting member, a plurality of slidable elements operatively secured to each driven member-section so as to rotate therewith, said elements being adapted to have operative relation with the power-imparting member, and means whereby a portion of said elements is maintained out of operative relation while the other portion of said elements is in operative relation with said power-imparting member and movement of the power-imparting member in advance of the sectional driven member prevented.

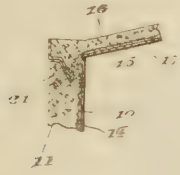
1,420,707. ALLOY STEEL. CHARLES MORRIS JOHNSON, Avalon, Pa. Filed Aug. 6, 1920. Serial No. 401,656. 1 Claim. (Cl. 75—1.)

Steel containing from about ten per cent to about twenty per cent of chromium, from about nine per cent to about twenty-five per cent of nickel, and from about one per cent to about ten per cent of silicon.

1,420,708. ALLOY STEEL. CHARLES MORRIS JOHNSON, Avalon, Pa. Filed Mar. 28, 1921. Serial No. 456,191. 2 Claims. (Cl. 75—1.)

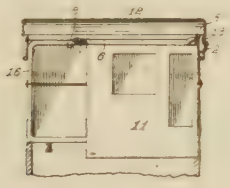
1. Steel containing from about six per cent to about eighteen per cent of chromium, from about twelve per cent to about thirty-six per cent of nickel, from about one per cent to about ten per cent of silicon, and at least fifty per cent of iron, the content of nickel being substantially double (or more) the content of chromium.

1,420,709. BURIAL VAULT. GEORGE W. KILLINGER, Joliet, Ill. Filed Feb. 26, 1921. Serial No. 447,993. 3 Claims. (Cl. 72—7.)



1. The combination with a burial vault having a V-shaped groove in its top edge; of a lid composed of a metallic plate and a plastic material covering the same externally, said plate having an inturned marginal flange seating on the aforesaid edge of the vault outside the groove, and said flange having at its free end a down turned V-shaped bend seating in the groove.

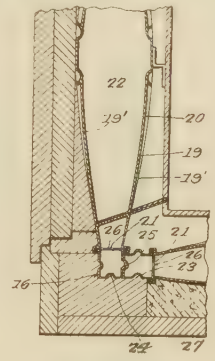
1,420,710. AUTOMOBILE CURTAIN SUPPORT. GEORGE J. KONICEK, Bruce Township, Benton County, Iowa. Filed Jan. 7, 1922. Serial No. 527,719. 2 Claims. (Cl. 296—138.)



2. The combination with a vehicle and its wind-shield, and supporting means on the vehicle adjacent the wind-shield, of a bracket-bar mounted rigidly and removably on said supporting-means angularly relative to the wind-shield, a curtain-carrying bar having one extremity swingingly connected to said bracket-bar and having its opposite free end bent for occasional interlocking engagements with said wind-shield when it is swung away from the bracket-bar, said curtain-carrying bar having releasable fastening-means thereon for supporting a curtain thereon, and a curtain suspended on said bar by said fastening-means.

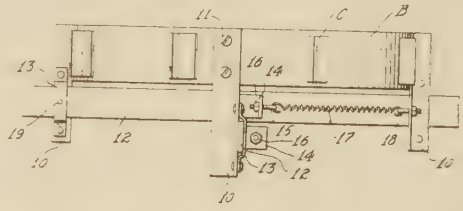
1,420,711. REFRIGERATOR. WILLIAM K. KNUTSON, Wichita Falls, Tex. Filed Mar. 17, 1921. Serial No. 453,126. 4 Claims. (Cl. 217—5.)

1. A vacuum wall for a refrigerator comprising sections made up of oppositely and outwardly bowed plates, and members connecting the marginal edges of the plates of



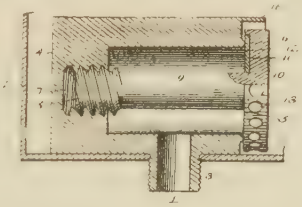
the individual sections and formed for interlocking engagement with other sections.

1,420,712. TRACTOR LUG. MATHIAS KRETCHMER, Oriska, N. Dak. Filed May 6, 1921. Serial No. 467,403. 5 Claims. (Cl. 301—47.)



3. A traction lug attachment for tractor wheels comprising a plurality of angle bars secured upon the periphery of the wheel in transverse relation thereto and projecting beyond one face of the wheel, guide brackets carried by said bars, elongated bars slidable through the brackets on opposite ones of said first named bars and having their ends projecting normally beyond the periphery of the wheel, removable means for holding said last named bars rigid with respect to said first named bars, laterally extending brackets on each of said last named bars adjacent the central portions thereof, and springs adjustably connected with said last named brackets and connected with the adjacent ones of said first named brackets.

1,420,713. AUTOMATIC VALVE FOR FLUSH TANKS. ROBERT L. LASH, Norfolk, Va., assignor of two-fifths to H. L. Kanter, Norfolk, Va. Filed Dec. 27, 1921. Serial No. 524,815. 6 Claims. (Cl. 137—104.)

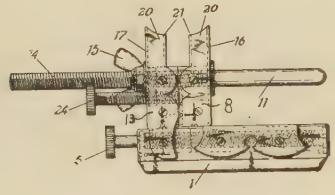


3. A valve of the character described comprising a chamber having an open end, a water supply intermediate the ends, a disk valve closing the open end of the chamber and having a stem and an annular recess on its inner face, a gasket frictionally held in said recess, a screw threaded connection between the stem and chamber, and a float secured to the valve and adapted to oscillate the same for opening and closing it.

1,420,714. BOTTLE CLEANER. EDWARD A. LEE, Haileybury, Ontario, Canada. Filed Mar. 3, 1920, Serial No. 362,992. Renewed Nov. 19, 1921. Serial No. 516,510. 2 Claims. (Cl. 15—212.)

1. A cleaning device of the class described including cleaning elements, a rod, a sleeve thereon, means connecting the cleaning elements to the sleeve, said sleeve provided with an internal pocket, a resilient pawl fixed to the interior of the pocket so as to lie along the interior thereof, teeth on the rod, and means for pushing the pawl in engagement therewith.

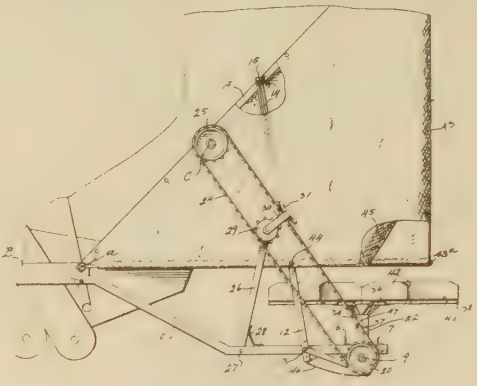
1,420,715. ENGRAVER'S CLAMP. CHARLES E. LINNIG, Peru, Ill. Filed Aug. 6, 1921. Serial No. 490,426. 12 Claims. (Cl. 81—4.)



4. In an engraver's clamp, a base, a stationary jaw having an aperture mounted on said base, a plurality of rods projecting from said jaw, an auxiliary jaw movably mounted on said rods, a threaded bolt loosely attached to said auxiliary jaw and passing through the aperture in said stationary jaw, a nut on said bolt, a threaded bolt rotatably mounted in said base and a nut having a projection therefrom which engages said auxiliary jaw, with auxiliary means for securing said movable jaw in angular positions relative to said stationary jaw.

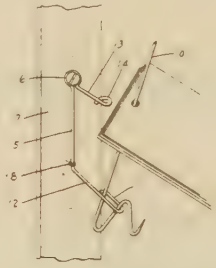
1,420,716. STRAW SPREADER FOR HARVESTER THRASHERS. EDWARD H. LINSCHEID, Arlington, Kans. Filed Sept. 15, 1920. Serial No. 410,366. 7 Claims. (Cl. 275—8.)

1. A distributer attachment for harvester thrashers comprising a supporting frame adapted to be detachably and pivotally mounted upon the rear end of the harvester thrasher for vertical oscillation, braces connected to the rear end of said frame and at their upper ends having sliding engagement with the rear end of the harvester thrasher and limiting the vertical oscillation of the frame, a hood of flexible material attached to the rear end of the harvester thrasher and extending downward around and attached to said frame, a distributer rotatably mounted upon the rear end of the frame beneath the hood, means affording a driving connection between the distributer and the driving mechanism of the harvester thrasher and permitting upward movement of the rear end of the frame, and



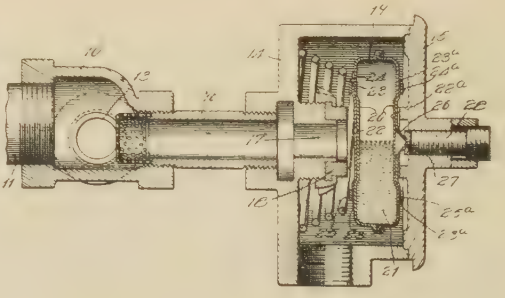
a ground engaging shoe operatively mounted upon the supporting frame, whereby to cause the vertical oscillation of the free end of the supporting frame and the distributer.

1,420,717. CONSECUTIVE-ORDER-IMPALING PIN. FREDERICK T. LOFTIN, Indianapolis, Ind. Filed May 24, 1920. Serial No. 383,793. 3 Claims. (Cl. 129—21.)



2. An impaling pin comprising a file rod having a U-shaped curve on the lower end thereof, a support for said file rod, an arm projecting from said support having a looped end in which the lower curved end of said rod is adapted to seat, and means for detachably securing said rod in spaced relation with said support.

1,420,718. STEAM TRAP. CHARLES E. LOWELL, New York, N. Y., assignor to Vapor Car Heating Company, Inc., Chicago, Ill., a Corporation of New York. Filed Feb. 24, 1919. Serial No. 278,750. 5 Claims. (Cl. 236—58.)

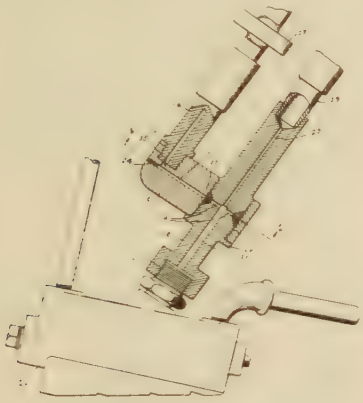


1. A thermostatic element comprising a closed vessel having a flexible face, clip elements on said face and a plate detachably connected to said face and adapted to protect the same from wear comprising a disk provided with arms which fit under said clip elements.

1,420,719. SOUND AMPLIFIER. WALTER F. LUHNOW, Oak Park, Ill. Filed Mar. 1, 1920. Serial No. 362,245. 3 Claims. (Cl. 181—27.)

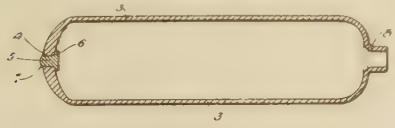
1. A sound amplifying chamber of oblong shape, mainly conoidal, and furcated at the smaller end, the large end and one of more of the branch tips being open.

1,420,720. WELDING APPARATUS. WILLIS MCKEE, Cleveland, Ohio, assignor to The Elyria Iron & Steel Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 22, 1919. Serial No. 284,410. 3 Claims. (Cl. 158—27.4.)



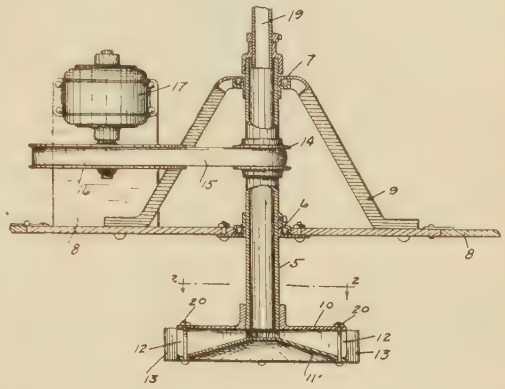
1. In apparatus of the class described, a head block having a threaded opening extending through one end, a threaded bore adjacent its other end, the axis whereof is substantially parallel with that of the opening, and a passage connecting the bore and opening, a supply connection screwed into said bore and a barrel having a threaded portion intermediate its ends screwed into said opening, said threaded portion being grooved circumferentially in the plane of the aforesaid passage the barrel having a longitudinal bore enlarged throughout a part of its length to provide a mixing chamber, and one or more passages leading from said groove into the mixing chamber.

1,420,721. CYLINDER AND METHOD OF MAKING SAME. GILBERT P. MCNIFF, Pittsburgh, Pa., assignor to National Tube Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Mar. 18, 1921. Serial No. 453,284. 10 Claims. (Cl. 29—156.)



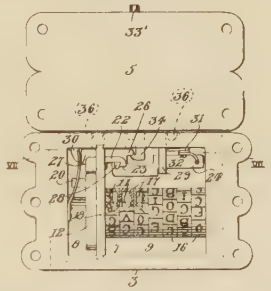
1. The method of making a high pressure cylinder from tubing, which consists in cutting the tubing to length, shaping the walls of said tubing inwardly adjacent to one end thereof to form a closed bottom, cutting a portion of said bottom away to form an outwardly tapering aperture, and securing a plug in said aperture.

1,420,722. ROTARY SPRAYING HEAD. JOHN C. MACLACHLAN, St. Paul, Minn., assignor to Standard Food Products Company, St. Paul, Minn., a Corporation of Delaware. Filed Oct. 8, 1919. Serial No. 329,352. 7 Claims. (Cl. 299—63.)



1. A rotary spraying head having in combination a plurality of radially extending spaced blades, said blades extending substantially normal to the axis of rotation and the longitudinal edges thereof diverging outwardly so as to reduce in thickness and increase in width the films of material carried over the surface of said blades, and disks enclosing said blades at the top and bottom thereof.

1,420,723. PERMUTATION LOCK. JOSO MARKUS and LOUIS THOMAS, East Pittsburgh, Pa. Filed Nov. 3, 1920. Serial No. 421,500. Renewed Apr. 12, 1922. Serial No. 551,841. 2 Claims. (Cl. 70—53.)

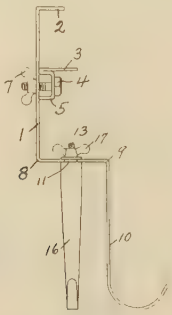


1. A permutation lock of the type described comprising a casing, a partition therein, a spindle provided with spaced lugs slidably extending through said partition, a plurality of permutation disks associated with the spindle lugs to control sliding movement of the spindle, a head carried by the spindle at the side of the partition opposite to the permutation disks, a sliding latch keeper mounted within the casing, a spring associated with each end of the latch keeper for holding the same normally projected in one direction, a keeper hook carried by the latch keeper, a lateral lug carried by the sliding latch keeper, a head carried by the spindle, a hooked arm carried by said head and in engagement with the lug on the latch keeper and a latch bolt associated with the hook of the latch keeper.

1,420,724. HOOK. CHARLES MARONA and BERT VILLIOTT, Youngstown, Ohio. Filed Mar. 10, 1922. Serial No. 542,702. 1 Claim. (Cl. 248—22.)

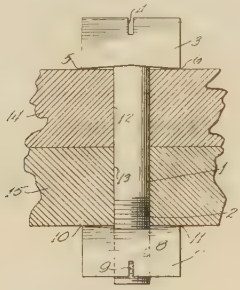
In a device of the class described, an arm member with an inturned upper end, a slidable gripping means secured to said arm and directly underneath the inturned end, an inturned portion having a downwardly depending

hook, a secondary hook secured to the inturned portion in a rotatable and slidable manner, said secondary hook being secured by means of a bolt passing through an open-



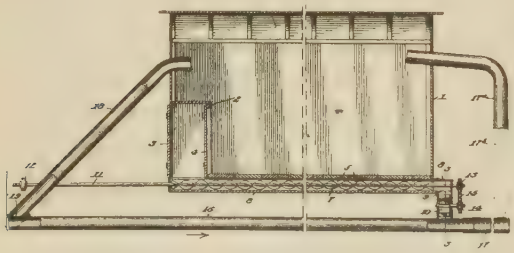
ing in the inturned portion of said arm and through a slot in the upper end of the secondary hook member, substantially as described for the purpose set forth.

1,420,725. CLAMPING DEVICE. JULIUS MATTSON, Chicago, Ill. Filed Mar. 16, 1921. Serial No. 452,725. 5 Claims. (Cl. 151—32.)



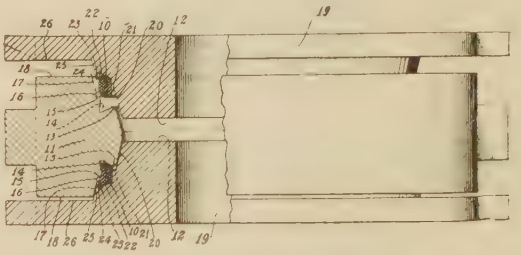
1. In a device of the character described, a bolt formed with a head having a slot in its upper surface and having its under surface formed to contact with a contiguous surface along the opposite edges thereof parallel with the slot, whereby the head is maintained in adjusted position when clamped to the underlying surface.

1,420,726. GRAIN CONVEYER. JOHN W. MONTAGUE, Trenton, and VAN G. PATRICK, Postelle, Ark., assignors to Universal Seed Loading Company, Helena, Ark., a Corporation of Arkansas. Filed July 19, 1920. Serial No. 397,444. 6 Claims. (Cl. 214—16.)



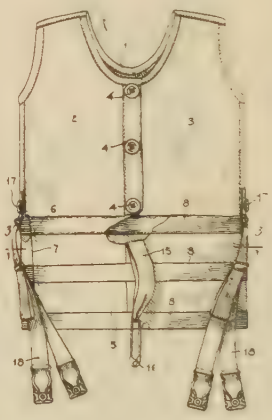
1. Apparatus for conveying material, comprising in combination, a storehouse, the bottom of said storehouse comprising sections, said sections being adapted to swing, a trough below said sections, said trough extending beyond the end of said storehouse, the part of said trough extending beyond the end of said storehouse having a removable cover therefor, a screw conveyer located in said trough, a feed valve connected with said trough and a pressure pipe connected with said feed valve.

1,420,727. METHOD AND APPARATUS FOR MAKING ENDLESS BELTS OR RINGS. ALFRED E. MOON, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Dec. 19, 1921. Serial No. 523,367. 14 Claims. (Cl. 18—42.)



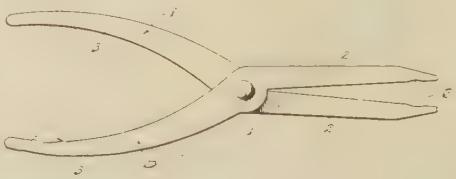
1. The method of making an endless belt or ring which comprises forming an annular structure of fibrous material and a vulcanizable plastic, forcing said structure over a tapered surface to stretch it, forcing it from said surface onto a molding surface, and molding and vulcanizing said structure in its stretched condition while supported upon said molding surface.

1,420,728. UNDERGARMENT. MARY MOORE, Wilber, Nebr. Filed May 24, 1920. Serial No. 383,950. 3 Claims. (Cl. 2—98.)



1. A garment of the character described comprising the front section, the back sections, abdomen bands on the back sections secured around the front of the garment, a sheet or panel secured at its upper end to the upper end of the front section and having garment supporting buttons at its sides in horizontal alinement adjacent its side edges, and its lowered end folded back beneath itself and secured to the front section to form a tab at its lower end.

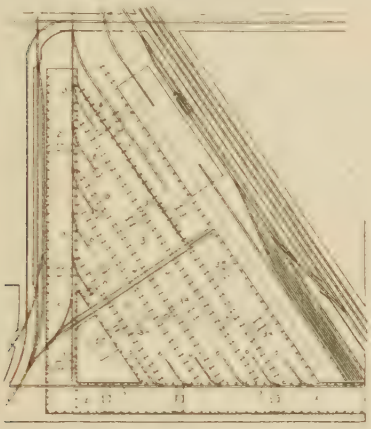
1,420,729. PLIERS. FRANK J. MORAN, New Britain, and WILLIAM A. PECK, New Haven, Conn., assignors to The Simpson-Peck Mfg. Co., New Haven, Conn., a Corporation of Connecticut. Filed July 13, 1921. Serial No. 484,478. 1 Claim. (Cl. 81—3.)



A pair of pliers embodying thin, narrow, elongated jaws having coacting longitudinal grooves formed therein and

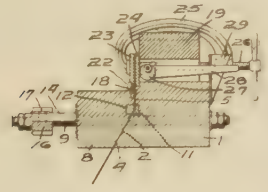
opening through the ends thereof, the inner ends of said grooves terminating in a shoulder, said jaws being provided inwardly of the shoulders with opposed transverse recesses.

1,420,730. PLANT FOR THE MANUFACTURE OF MACHINERY AND OTHER APPARATUS. WILLIAM HENRY MORGAN, Alliance, Ohio, assignor to The Morgan Engineering Company, Alliance, Ohio. Original application filed June 17, 1919, Serial No. 304,961. Divided and this application filed Aug. 13, 1919. Serial No. 317,210. 1 Claim. (Cl. 20—1.1.)



In a machine shop plant an erecting shop L-shape in plan and shops or bays located within the triangular space between the two members of the erecting shop and oblique to and communicating with both.

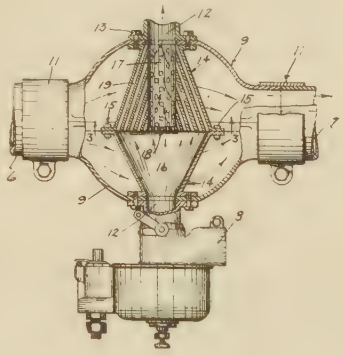
1,420,731. METAL-BENDING TOOL. EDWARD A. MULL, Wauseon, Ohio. Filed Apr. 29, 1921. Serial No. 465,491. 6 Claims. (Cl. 153—16.)



1. In a metal bending tool, a block having a surface conforming to the surface of the article that it is desired to form, a second block having a surface matching the surface of the first named block, means for clamping the blocks together to bend the sheet metal, a pair of clamping members, means for rotating the clamping members, and means for moving portions of the clamping members through greater lengths during their rotation than other portions of the clamping members.

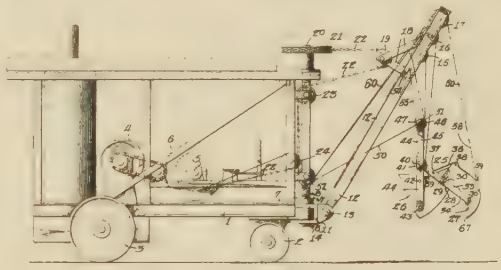
1,420,732. FUEL-MIXING DEVICE FOR INTERNAL-COMBUSTION ENGINES. OSCAR M. MUNDALE, Frost, Minn. Filed Apr. 7, 1919. Serial No. 288,198. 2 Claims. (Cl. 48—180.)

1. In an internal combustion engine having an intake manifold and a carbureter, a fuel vaporizer disposed above the carbureter comprising a distributing chamber in communication with the upper end of the carbureter, and a collecting chamber in communication with the intake manifold in the engine, a perforated partition between said two chambers, and a plurality of flues disposed



about said partition communicating at their lower ends with the distributing chamber and at their upper ends with the collecting chamber.

1,420,733. EXCAVATING APPARATUS AND DRAG BUCKET. JOHN C. MUNDY, Philadelphia, and HARRY T. WILSON, Tullytown, Pa. Filed Feb. 12, 1921. Serial No. 444,464. 7 Claims. (Cl. 37—55.)

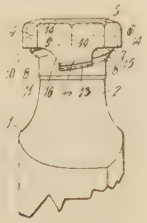


1. In an excavating apparatus, the combination with a lifting boom, of a supporting frame therefor, an excavating drag bucket comprising an excavating or digging body section and a rear bottom dumping section, said sections being hingedly connected adjacent their upper edges, whereby when the bucket is in a digging or excavating position the rear bottom section may assume a position, constituting the rear top of the bucket over the excavating section, and when the bucket is hoisted with the lower portion of the bucket in close position to the top of a dump car the rear bottom section may swing open without contacting with the dump car, means for dragging and digging the nose of the excavating body section into the ground, means under tension to hold the rear bottom section closed when the body section is excavating and constituting means for hoisting the bucket when filled, the dragging means having been slackened, and means for opening the rear bottom section after the hoisting means has been partially slackened, whereby the contents of the bucket may be discharged.

1,420,734. CLOSURE FOR CONTAINERS. CHARLES L. MURPHY, Cincinnati, Ohio. Filed June 30, 1921. Serial No. 481,538. 11 Claims. (Cl. 215—44.)

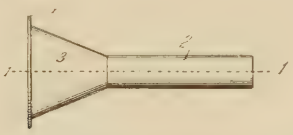
1. A container having an outlet with a cap-seating surface therearound, and shoulders facing away from said surface at intervals around the container, and a cap seating on said surface, with shoulders at intervals thereabout to engage with respective ones of said container shoulders, said cap shoulders and corresponding ones of

said container shoulders being, in their extent around the container, substantially correspondingly of increasing



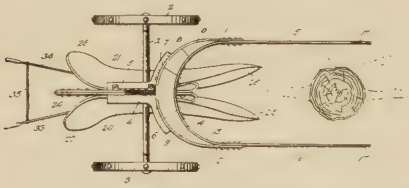
distance from said seating surface, measured on a line perpendicular to said surface, in one direction only around the container.

1,420,735. WELDING MACHINE. THOMAS E. MURRAY, Jr., and JOSEPH B. MURRAY, Brooklyn, N. Y. Filed Feb. 1, 1921. Serial No. 441,561. 7 Claims. (Cl. 219—4.)



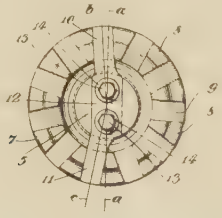
1. A machine for electrically welding together segments having flanges transverse to the edges to be welded, said machine including in combination electrodes, and means for holding said flanges properly alined during the welding operation.

1,420,736. STUMP PULLER. JOHN WILLIAM NISSROD, Jacksonville, Fla. Filed Nov. 22, 1920. Serial No. 425,710. 4 Claims. (Cl. 57—19.)



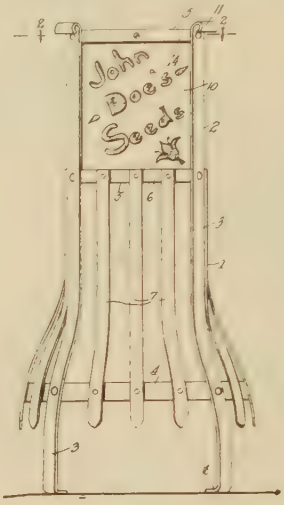
1. In a stump puller of the class described, an arched axle, ground wheels supported by said axle, downwardly extending beams supported from said axle, a horizontally pivoted plow structure carried by the lower ends of said beams, said plow structure comprising a pair of parallel, connected shares and prismatic diverging forward extensions formed with said shares, manual means for tilting said plow on its pivot and adjustable draft means for regulating the plowing depth of the diverging extensions.

1,420,737. NUT LOCK. NILS ARVID PALMGREN, Gottenborg, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken, a Corporation of Sweden. Filed Dec. 1, 1921. Serial No. 519,057. 6 Claims. (Cl. 151—28.)



1. In a nut lock, the combination with a threaded bolt having at its end a transverse slot, of a castellated nut, and a locking member comprising a body portion adapted to seat in the slot in the bolt and a finger adapted to seat in the notches of the nut, the finger of the locking member being disposed at an angle to the body portion thereof, whereby, upon reversal of the position of the said body in the slot the finger assumes different angular positions.

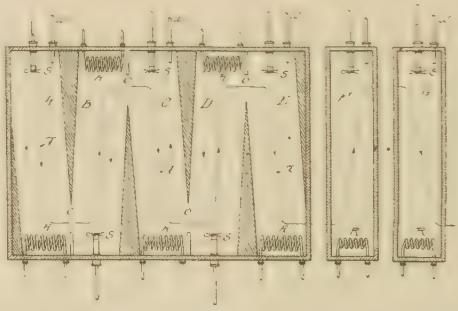
1,420,738. TREE PROTECTOR. JOSEPH PAUPA, Chicago, Ill. Filed Sept. 20, 1920. Serial No. 411,618. 5 Claims. (Cl. 47—38.)



4. As a new article of manufacture, a tree protector having corner posts, spaced near their lower part by a circular ring composed of two equal parts abutting against each other at diametrically opposite points, frames vertically spaced from each other and spaced from the upper parts of the corner posts united therewith, each of the frames composed of equal parts abutting against each other at diagonally opposite points, means for uniting the parts of the circular ring, means for uniting the parts of the frames, the joints between the parts of the frames, and the joints between the parts of the circular ring being approximately in one vertical plane, and panels slidably held between said posts and said frames.

5. A tree protector comprising corner posts, frames spaced therefrom and united therewith, and panels having flange portions slidably fitting into the space between the posts and frames.

1,420,739. METHOD OF PRESERVING COMESTIBLES. PAUL W. PETERSEN, Chicago, Ill. Filed Feb. 28, 1921. Serial No. 448,333. 13 Claims. (Cl. 99—14.)

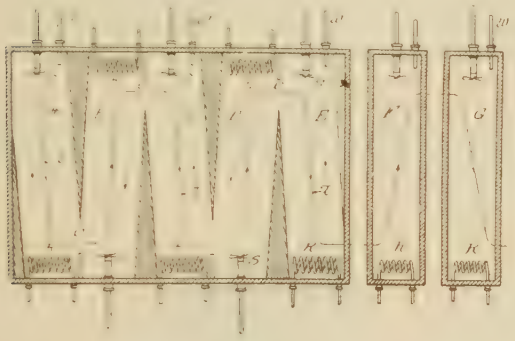


4. In the art of preserving by refrigeration, the process of treating meat and other comestibles which comprises immersing the comestible in a chilling and pre-cooling liquid bath that possesses properties substantially isotonic to the initial liquid content of the comestible whereby the comestible is pre-cooled and, at the same time, the liquid content thereof is restored to substantially its initial

value and composition and then subjecting the comestible to a refrigerating operation.

13. In the art of preserving by refrigeration, the process of treating meat and other comestibles which comprises subjecting the comestible to the direct action of a pre-cooling liquid that possesses properties substantially isotonic to the initial liquid content of the comestible whereby the same is pre-cooled and the liquid content thereof is partially restored, and then subjecting the comestible to a refrigerating operation.

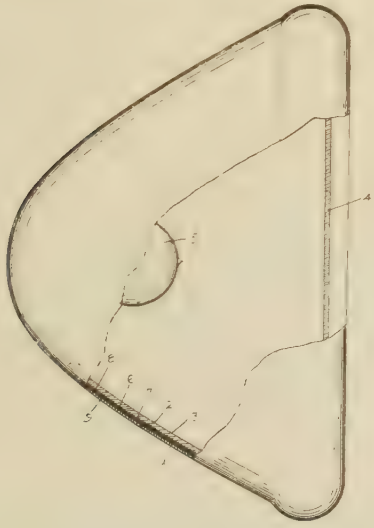
1,420,740. METHOD OF PRESERVING COMESTIBLES. PAUL W. PETERSEN, Chicago, Ill. Original application filed Feb. 28, 1921, Serial No. 448,333. Divided and this application filed Oct. 6, 1921. Serial No. 505,832. 8 Claims. (Cl. 99—44.)



1. In the art of preserving meat, the step which comprises chilling or pre-cooling the meat in a bath comprising water and glycerine mixed in such proportion that the osmotic pressure of said bath is substantially equal to the osmotic pressure of the natural liquid content present in the meat.

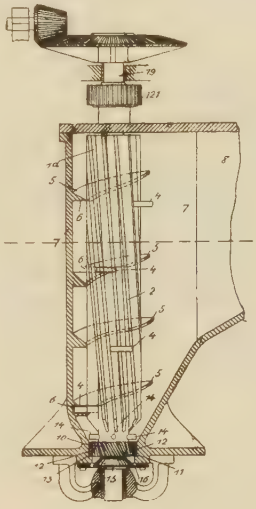
4. In the art of preserving comestibles, the step which comprises chilling or pre-cooling the comestible by subjecting it to the direct action of a refrigerated and substantially isotonic liquid which comprises a crystalloid solute and exerts a pressure substantially iso-osmotic to that of the natural liquid content present in the comestible.

1,420,741. VEHICLE LAMP. HARRY PEYTON, Detroit, Mich. Filed June 30, 1920. Serial No. 392,990. 4 Claims. (Cl. 240—41.)



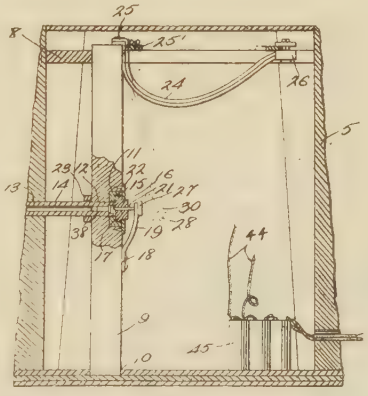
1. In a vehicle lamp, the combination with a reflector member having a finely roughened surface, of a mirroring material upon said roughened surface.

1,420,742. MACHINE FOR REDUCING TURNING CHIPS AND THE LIKE. RICHARD PHILIPP, Eisenach, Germany, assignor to the Firm Magnetwerk G. m. b. H. Eisenach Spezialfabrik fur Elektromagnet-Apparate, Eisenach, Saxe-Weimar, Germany. Filed Oct. 25, 1919. Serial No. 333,378. 22 Claims. (Cl. 29—4.5.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A machine for reducing bulky metal chips, comprising a knife roller with knives extending substantially longitudinally thereto, a cutter-element cooperating with said knife roller, and means co-acting with said cooperating elements to disentangle the bales of chips, so that they may be seized and reduced by the knives.

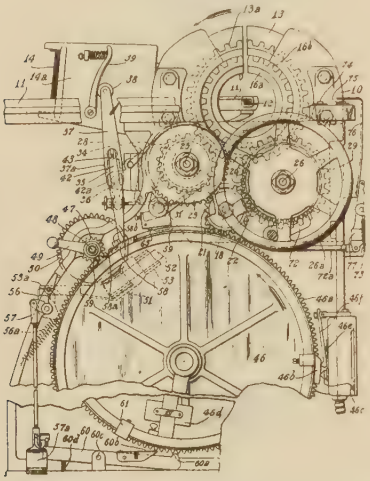
1,420,743. BURGLAR ALARM. FRANCIS H. PHILLIPS, Old Westbury, N. Y. Filed Nov. 13, 1919. Serial No. 337,707. 1 Claim. (Cl. 116—81.)



In a device of the character described, the combination with a casing simulating the stump of a tree, of an upright within the casing and spaced from the wall thereof, a gun barrel passing through the upright in the casing, a firing pin associated with the barrel, a resilient arm normally holding the pin in a retracted position, a hammer consisting of resilient longitudinal strips of metal having one end secured to the upper end of the upright, a slotted head secured to the free end of the hammer and adapted to contact with the firing pin, a shelf surrounding the upper edge of the casing adjacent the top of the upright, a lever pivoted to one side of the shelf and extending across to the opposite side, said lever engaging the slot of said head to hold the hammer in a raised or firing position,

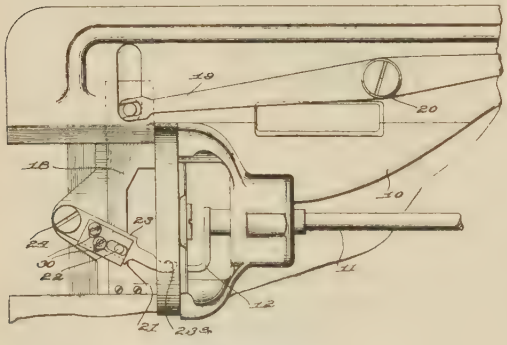
spring means to prevent accidental displacement of the lever, and tripping means for releasing the lever permitting it to swing downwardly to contact with said firing pin.

1,420,744. DRIVING AND STOPPING MECHANISM. ROBERT C. PIERCE, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Sept. 12, 1921. Serial No. 499,961. 23 Claims. (Cl. 117—5.)



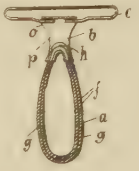
1. In a gromet-winding machine, the combination of a slotted ring-winder, a mounting therefor having a radial opening, a set of wire-feeding rollers carried by said ring-winder, a slotted driving member for said rollers journalled concentrically with said ring-winder, means for stopping said ring winder with its slot in registry with the opening of its mounting, and means for stopping said roller-driving member with its slot in registry with that of said ring-winder.

1,420,745. THREAD-PULL-OFF DEVICE FOR BUTTONHOLE MACHINES. ARTHUR L. PLAMONDON, Boston, Mass. Filed Sept. 14, 1920. Serial No. 410,093. 3 Claims. (Cl. 112—242.)



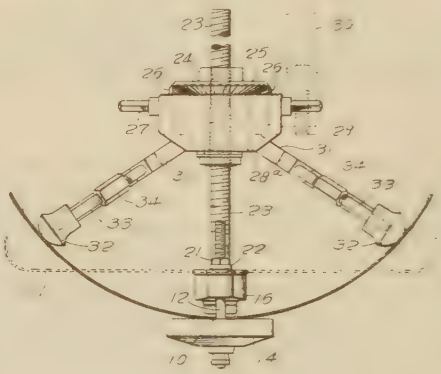
1. The combination with the bobbin and shuttle of a lock stitch buttonhole machine, of a finger mounted for oscillation to engage the bobbin thread for pulling off the same, and a thread cutting off slide, said finger and slide equipped with co-operative means for engagement of the finger by the slide and for varying the relation of the finger to the slide whereby the finger is operated by the slide and the limits of movement of the finger may be changed at will, for the purpose stated.

1,420,746. SUSPENDER CLIP. PAUL PUGNIET, Paris, France. Filed July 8, 1920. Serial No. 394,701. 3 Claims. (Cl. 24—245.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



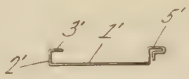
1. The herein described suspender clip comprising a body of metal bent backward upon itself and set to form and having grooves, a flexible loop secured in said grooves, and a flattened ring secured in the bend of said body for attachment to the fabric of the suspender.

1,420,747. RETORT-BOTTOM-BENDING DEVICE. EVAN V. QUINN and DELBERT GALLUP, Olean, N. Y. Filed July 1, 1921. Serial No. 481,991. 4 Claims. (Cl. 153—38.)



1. The combination of a spider, a yoke, rods joining spider and yoke at separated points, a pull rod connected with the yoke, a pressure block through which the rod passes, means to exert pressure on said block simultaneously with a pull on said rod, and oppositely situated, diverging thrust members.

1,420,748. TOY BUILDING BLOCK. AUGUST C. RADER, Reading, Mass. Filed Apr. 12, 1920. Serial No. 373,206. 1 Claim. (Cl. 46—35.)

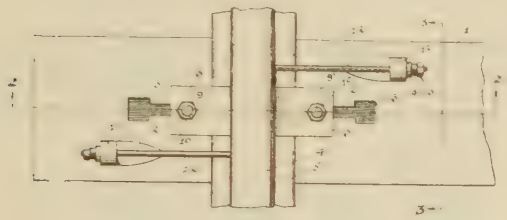


A building block formed of sheet metal and provided, along opposite edges with flanges extending at right angles therefrom, a lip extending at right angles from each of the flanges, one of the lips being extended laterally beyond the block and the other lip being disposed in lapped relation to the block, one of said lips being formed with a longitudinal channel, an extension upon the channeled lip and spaced from but parallel with the flange, and an apertured extension projecting from one edge of the block.

1,420,749. RAILROAD TIE. SAMUEL RAPP, London, Ohio. Filed Feb. 17, 1922. Serial No. 537,167. 1 Claim. (Cl. 238—336.)

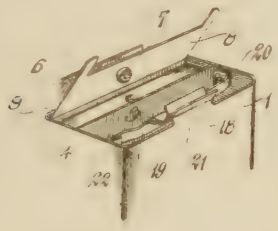
In a device of the class described, the combination with a tie of the rail mounted thereon, means for secur-

ing the rail to the tie, lugs mounted on opposite sides of the tie, rods having their outer ends adjustably connected with the lugs, said lugs and rods being disposed



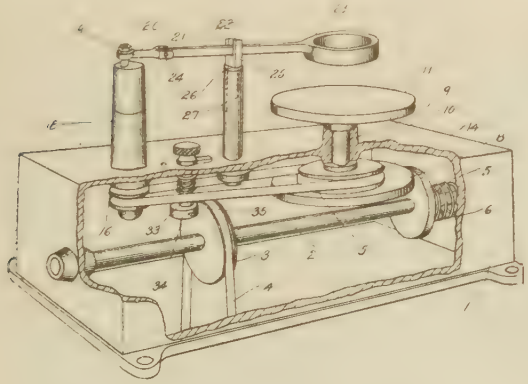
in diagonal relation, the inner ends of the rods being fixed to the web of the rail upon opposite sides of the securing means.

1,420,750. TRAFFIC INDICATOR. ROYAL N. RIBLET, Spokane, Wash. Filed Jan. 27, 1921. Serial No. 440,326. 4 Claims. (Cl. 177—327.)



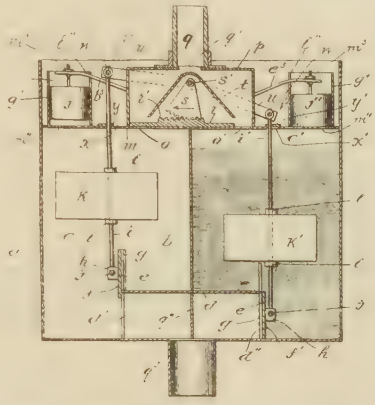
1. The combination with a casing, of a plurality of indicator webs each having a thickened portion, an automatically re-winding spool for each web, means for withdrawing separate webs, a guide device for said webs forming one contact element, and a second contact element co-operating therewith to form a normally open illuminating electric circuit and adapted to close upon the withdrawal of one of said webs and its thickened portion from the guide device.

1,420,751. LAPPING MACHINE. JAMES R. RICKETTS, Kansas City, Mo. Filed Mar. 6, 1920. Serial No. 363,686. 9 Claims. (Cl. 51—26.)



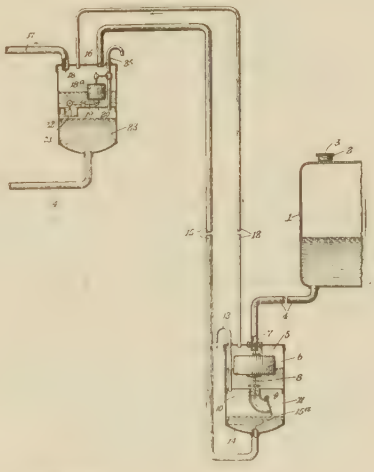
1. In a device of the class described, a rotating table, an oscillating member movable parallel with the table and having a valve member receiving yoke comprising a ring of greater diameter than the diameter of the valve member.

1,420,752. LIQUID METER. PATRICK J. ROACH and DANIEL CARTER, Toronto, Ontario, Canada. Filed Nov. 17, 1919. Serial No. 338,720. 15 Claims. (Cl. 73—28.)



1. A liquid meter comprising a measuring receptacle having an outlet port, a valve for alternately opening and closing said port, a float for operating the valve, a lock for controlling the movement of the valve, a float chamber above the measuring receptacle, and a float of approximately the same diameter as the float chamber connected to the lock therein for actuating the lock to release the same when the measuring receptacle is full.

1,420,753. VACUUM LIQUID-SUPPLY SYSTEM. EDWARD A. ROCKWELL, Flushing, N. Y., assignor to E. A. Rockwell Company, Inc., New York, N. Y., a Corporation of New York. Filed June 5, 1920. Serial No. 386,904. 17 Claims. (Cl. 158—36.)



1. In combination, a main supply tank, a charging chamber adapted to control the supply therefrom, a measuring chamber, a vacuum chamber located at a higher level than the measuring chamber, and a pipe for conveying liquid from the measuring chamber to the vacuum chamber.

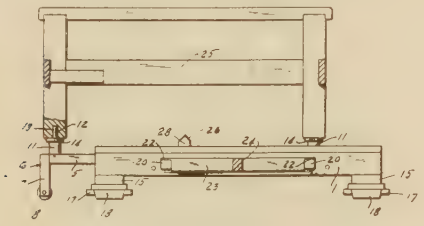
1,420,754. CARBONACEOUS PRODUCT AND THE METHOD OF MAKING SAME. HUGH RODMAN, Edgewood, Pa., assignor to Rodman Chemical Company, Verona, Pa., a Corporation of Pennsylvania. Filed Sept. 7, 1917. Serial No. 190,126. 12 Claims. (Cl. 252.)

2. The method of producing carbonaceous material which consists in dissolving rotted coal in an alkaline

reagent, in continuing the action until a thick plastic mass is obtained and then in drying the plastic mass.

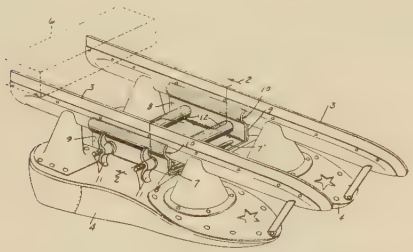
11. The product obtained by treating rotted coal with an aqueous solution of ammonia.

1,420,755. BED SUPPORT. GEORGE RUNNEBAUM, Westpoint, Tenn. Filed Jan. 18, 1922. Serial No. 530,187. 2 Claims. (Cl. 5—41.)



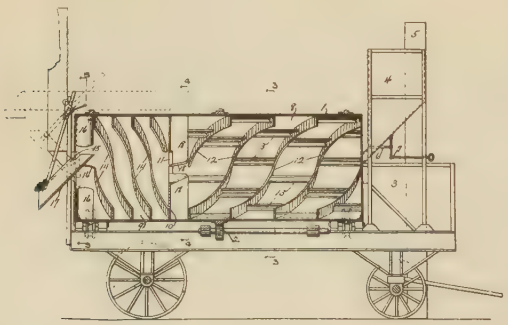
1. In a bed support, a pair of opposite guiding supports, means connecting said supports, according to the length of the bed to be supported, sliding supports mounted in the guiding supports and being movable transversely and having means to be engaged by the legs of the bed for supporting the same, said sliding supports having a depending leg at one end provided with a roller to engage the floor, and one end of each guiding support having a vertical channel to receive the leg of the guiding support.

1,420,756. SKATE-SHARPENER CLAMP. CALVIN RUTSTRUM, Minneapolis, Minn. Filed Apr. 1, 1920. Serial No. 370,554. 7 Claims. (Cl. 51—228.)



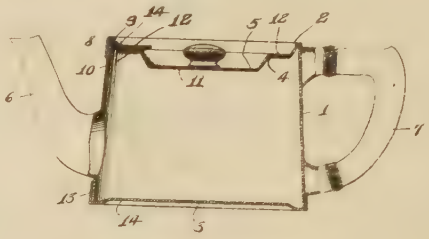
1. A skate sharpener clamp comprising a pressed metal bridge plate having at its longitudinal edges integrally formed fixed jaws, a pair of movable jaws, said fixed and movable jaws having co-operating semi-cylindrical seats each constructed and arranged to engage the tubes of tube skates at two circumferentially spaced points, and nut-equipped draw bolts for drawing the movable jaws toward the fixed jaws.

1,420,757. BITUMINOUS MIXING MACHINE. JOSEPH H. RYAN, Pittsburgh, Pa. Filed Feb. 12, 1920. Serial No. 358,315. 5 Claims. (Cl. 94—43.)



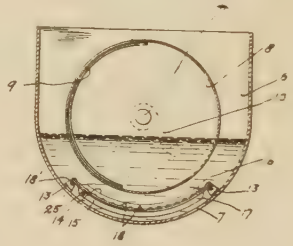
1. A bituminous mixing machine involving a hollow drum mounted for rotation, which is interiorly divided transversely of its longitudinal line into two communicating compartments, and spiral members arranged in each of said two compartments for automatically mixing and moving the material introduced into the drum simultaneously in two diametrically opposite directions.

1,420,758. TEAPOT. ALBERT F. SAUNDERS, East Syracuse, N. Y., assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y., a Corporation of New York. Filed Apr. 16, 1921. Serial No. 461,831. 3 Claims. (Cl. 53—3.)



1. A tea pot comprising a body including a tubular side wall and top and bottom walls, the top wall being formed with a circular opening and including an annular depending part, and a horizontal flange projecting from the depending part, a lid having a central depression extending through the opening in the top and its marginal portion lapping said flange, and a pair of lugs projecting from the depending part of the top and overhanging the flange for engaging the margin of the lid and preventing displacement of the lid when the pot is tipped, substantially as and for the purpose described.

1,420,759. SUBMERGED HEATER FOR TANKS. JOSEPH G. SAWICKI, Essexville, Mich. Filed Jan. 26, 1922. Serial No. 531,988. 4 Claims. (Cl. 219—38.)

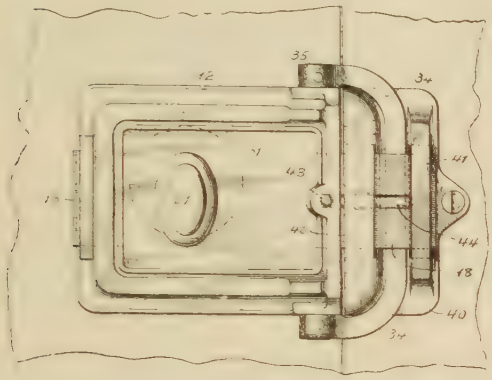


4. An electric water heater comprising a two part hollow casing, flanged elements extending from said casing, means for holding said casing members tightly together, a plurality of heating elements electrically connected and disposed within said casing, means for insulating said heating elements from the casing compartments formed with the casing and separating said heating elements, means for entering an electric current carrying cable into said casing, said means consisting of a clamp passing through the outer wall of the casing and secured therein by a clamp nut impinging against the casing wall forming a water-tight connection, said cable containing a pair of electrical conductors to one of which are attached one of the terminals from each series of heating elements, while the other conductor is connected to the opposite terminals of the same series of heating elements.

1,420,760. LOCK. REINHOLD SCHOELL, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Aug. 4, 1920. Serial No. 401,194. 17 Claims. (Cl. 70—46.)

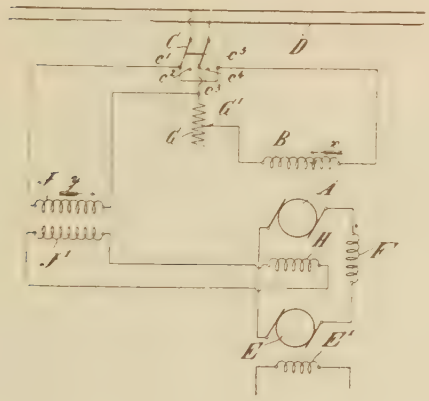
2. The combination of a keeper, a lock having a bolt adapted to be projected to engage the keeper, mechanism

for actuating the bolt, and a hasp carried by the lock and movable to engage the keeper, the hasp engaging the



keeper at the rear of the bolt so that it will be locked against releasing movement by the bolt.

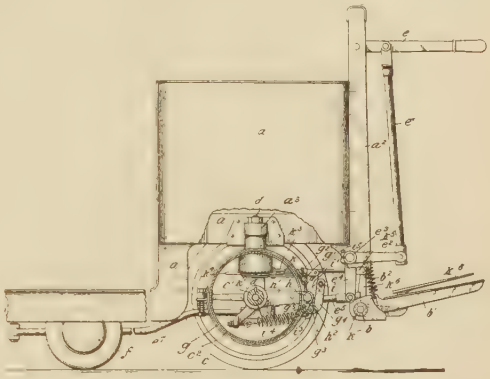
1,420,761. ARRANGEMENT FOR EXCITING CONTINUOUS CURRENT GENERATORS. LUDWIG SCHÖN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 4, 1920. Serial No. 408,381. 8 Claims. (Cl. 171—223.)



1. Arrangement for exciting a continuous current dynamo having a main field winding and a separate source of excitation therefor, an auxiliary field winding energized by the current generated in the dynamo, and a second auxiliary field winding, a transformer, having its primary winding connected to said separate excitation source and controlled to receive current therefrom simultaneously with said main field winding, the secondary transformer winding being in circuit with said second auxiliary field winding.

1,420,762. MOTOR TRUCK. CHARLES S. SCHROEDER, New Brighton, N. Y., assignor, by mesne assignments, to The Yale & Towne Manufacturing Company, Stamford, Conn., a Corporation of Connecticut. Filed May 8, 1920. Serial No. 379,775. 5 Claims. (Cl. 188—194.)

5. In a motor truck, the combination of a steering knuckle, a wheel carried by the steering knuckle and having a brake drum, an arm extended from the steering knuckle, a stud carried by said arm, a brake band, an arm mounted to swing on said stud, operative connections between the brake band and said latter arm, a spring operatively connected at one end with said arm and at

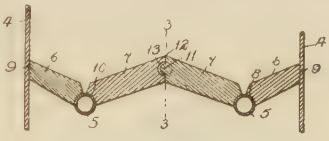


the other end with the steering knuckle, and controlling means operatively connected to said arm to move the same in opposition to the spring.

1,420,763. AIRSHIP. JOHANN SCHUETTE, Zeesen-Koenigs-Wusterhausen, near Berlin, Germany, assignor, by mesne assignments, to American Investigation Corporation, New York, N. Y., a Corporation of Maryland. Filed June 25, 1919. Serial No. 306,720. 2 Claims. (Cl. 244—3.)

1. In a rigid airship, a rigid gas-enveloping frame, a supplemental heavy and rigid strengthening frame formed integral with the bottom portion of said rigid gas-enveloping frame and being enclosed thereby, said supplemental frame constituting a keel and having a chamber or passage extending longitudinally of the airship.

1,420,764. LOCOMOTIVE ARCH BRICK. WILLIAM SCHUTTLER, Chicago, Ill., assignor to Universal Arch Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 18, 1917. Serial No. 186,903. 4 Claims. (Cl. 110—87.)

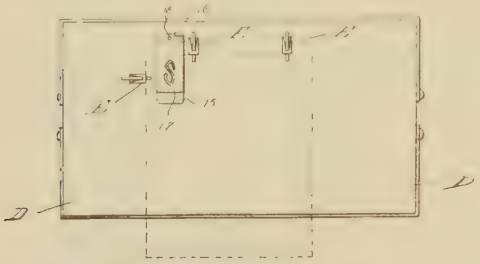


4. In an arch construction, the combination with a plurality of supports, of bricks having ends formed to engage said supports and having adjacent ends in contact to form an arch, said bricks being duplicate in form and each of said adjacent ends being provided with a hemispherical protuberance and a hemispherical socket forming ball and socket joints between said adjacent ends, substantially as described.

1,420,765. EMBOSSING AND PRINTING APPARATUS. GEORGE F. SEITZ, Philadelphia, Pa. Filed Aug. 12, 1921. Serial No. 491,767. 3 Claims. (Cl. 101—3.)

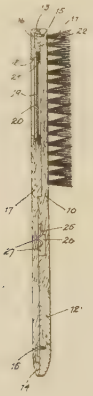
1. An embossing and printing apparatus including a presser block adapted to be locked within the chase of a

printing press, in combination with a die device adapted to be secured upon the platen of the press in conjunction



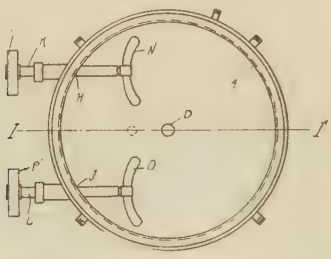
with ordinary gage pins, the presser block having any desired design of printing surface to be inked by the press rollers.

1,420,766. TOILET ARTICLE. JONAS SIMS, Trenton, N. J. Filed Nov. 16, 1921. Serial No. 515,508. 2 Claims. (Cl. 182—85.)



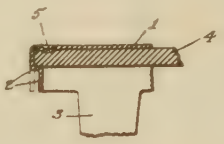
1. In combination with a hair brush body, a back cover having longitudinal slots and recesses formed in its upper and lower ends, screw members secured to the main brush body and adapted to engage the slots and recesses of the back cover, when holes in the latter are slipped over screw heads, an annular mirror secured in a suitable recess in the cover member, and means for releasably locking the back cover to the main body.

1,420,767. LIQUID-AGITATING MECHANISM. FRANK M. SLOUGH, Elyria, Ohio, assignor to The Elyria Enameled Products Company, Elyria, Ohio, a Corporation of Ohio. Filed July 1, 1920. Serial No. 393,429. 13 Claims. (Cl. 259—104.)



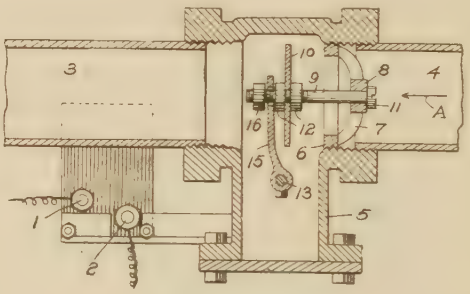
1. In combination, a tank, a propeller, a propeller shaft, said propeller being adapted to be rotated by the said shaft, cylindrical side walls for the said tank, said propeller being adapted to be rotated in a vertical plane located parallel to but on one side of a tank diameter, the axis of rotation being in a vertical plane not corresponding to a tank diameter, but parallel thereto, the bottom of the tank being inclined to the plane to the attaching edge of the side walls.

1,420,768. CLOSURE FOR CONTAINING VESSELS. ARTHUR D. SMITH, Portland, Me., assignor to National Seal Company, Inc., New York, N. Y., a Corporation of New York. Filed May 15, 1920. Serial No. 381,584. 2 Claims. (Cl. 220—46.)



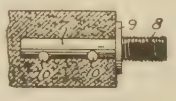
1. A metallic cap having an annular groove in its marginal top surface, and a compressible pack abutting the entire inner face of the cap top, said cap having a normal maximum internal diameter slightly greater than the normal maximum external diameter of the pack, said cap being slightly reduced circumferentially opposite the edges of said pack to yieldingly clamp the rim of the pack between the cap and said groove.

1,420,769. AUTOMATIC PUMP STOP. HUBERT L. SMITH, Avonmore, Pa. Filed Apr. 2, 1920. Serial No. 370,837. 2 Claims. (Cl. 103—85.)



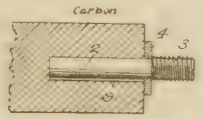
1. The combination with two aligned pipe sections of a pump for forcing liquid therethrough, a T connecting said sections and depending therefrom, a sliding valve so positioned within said T as to be closed by back pressure upon a cessation of liquid flow through said pipe sections and means operating upon the closing of said valve for shutting off said pump.

1,420,770. BINDING POST. OSCAR A. SMITH, Cleveland, Ohio, assignor of one-half to William R. Mitchell, Cleveland, Ohio. Filed Aug. 2, 1919. Serial No. 314,884. 16 Claims. (Cl. 173—259.)



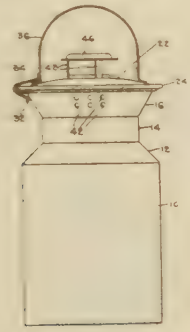
14. A battery cell element consisting of a rod of non-metallic substance having a bore in its outer end portion, a binding post adapted to be forced thereinto and having a projecting end provided with conductor attaching means and having the end projecting into said rod provided with one or more semi-circular fins spaced from the inner end of said rod.

1,420,771. BINDING POST. OSCAR A. SMITH, Cleveland, Ohio, assignor of one-half to William R. Mitchell, Cleveland, Ohio. Filed Aug. 2, 1919. Serial No. 314,885. 9 Claims. (Cl. 173—259.)



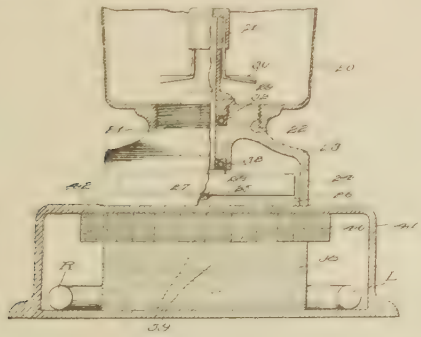
8. A battery cell element consisting of a rod of non-metallic substance having a bore in its outer end portion, a binding post adapted to be forced thereinto and having a projecting end provided with conductor attaching means and having the end projecting into said rod provided with a single projection or rib extending along one side thereof, said rib having a V-shaped formation.

1,420,772. COVER FOR CANS. PETER J. SPITTLER, Trempealeau, Wis. Filed Apr. 1, 1921. Serial No. 457,672. 2 Claims. (Cl. 31—84.)



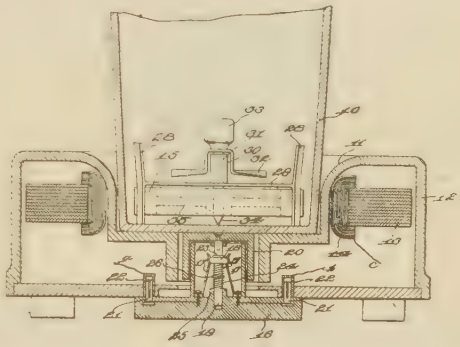
1. A cover for cans comprising a top member having a gauze-covered opening, a ring adapted to be removably secured in the lower end of said cover, a partition attached to said ring, said partition having openings therein and hinged flaps underneath said openings.

1,420,773. ELECTRICAL DRINK MIXER. FOREST A. STAINBROOK, Boston, Mass., assignor to Magnetic Drink Mixer Company, a Corporation of Massachusetts. Filed Dec. 22, 1921. Serial No. 524,150. 6 Claims. (Cl. 259—134.)



1. An electrical drink mixer comprising in combination a liquid container, a hollow base detachably secured thereto, a rotor rotatably mounted in said base, a shaft carried by said rotor and extending upwardly into said container, an agitator carried by said shaft and disposed within said container, and a stator operatively associated with said rotor.

1,420,774. ELECTRICAL DRINK MIXER. FOREST ARTHUR STAINBROOK, Boston, Mass., assignor to Magnetic Drink Mixer Company, a Corporation of Massachusetts. Original application filed Dec. 22, 1921, Serial No. 524,150. Divided and this application filed May 9, 1922. Serial No. 559,556. 4 Claims. (Cl. 259—122.)

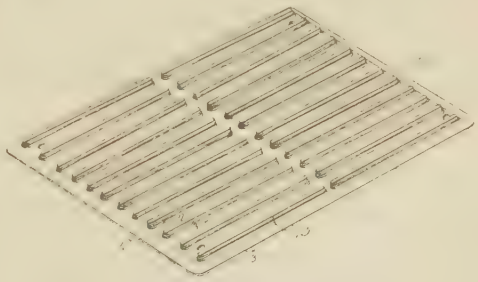


1. An electrical drink mixer comprising in combination a liquid container, a rotor, a removable resilient means in the bottom of said container for rotatably mounting said rotor therein, and a stator in co-operative relation with said rotor.

1,420,775. NONSLIPPING TREAD. FRANK H. STANWOOD, Chicago, Ill., assignor to Stanwood Equipment Company, Chicago, Ill., a Corporation of Maine. Filed Mar. 31, 1919. Serial No. 286,570. 1 Claim. (Cl. 20—79.)

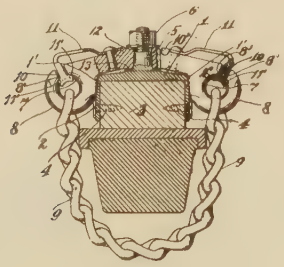
A non-slipping step tread for automobiles consisting of a reticulated and flexible sheet and an exterior body of soft, pliable and resilient material in which said reticulated sheet is embedded, said body having upstanding and isolated projections for engagement by the foot of the user, whereby the sidewise yielding of said projections is accommodated by a yielding of the underlying portions of the reticulated sheet to prevent the cracking and tearing away of said projections from said body.

1,420,776. STEP PLATE. FRANK H. STANWOOD, Chicago, Ill., assignor to Stanwood Equipment Company, Chicago, Ill., a Corporation of Massachusetts. Filed Aug. 20, 1919. Serial No. 318,664. 6 Claims. (Cl. 20—79.)



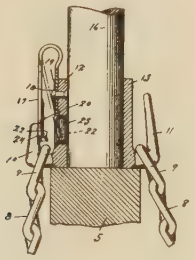
1. A safety step plate for automobiles and the like, comprising in combination a slotted plate having a protective yielding coating and yielding ribs disposed through the slots of said plate and protruding above said plate.

1,420,777. TIRE-CHAIN HOLDER. GEORGE STAPLES, Oshkosh, Wis., assignor to Staples and Seefeld, Milwaukee, Wis., a Milwaukee Partnership. Filed Feb 28, 1919. Serial No. 279,857. 5 Claims. (Cl. 152—2.)



1. A tire chain, comprising a holding member having means for attachment to a wheel, a post rigidly fastened to said means a hook member removably mounted on the post, a chain having one of its ends connected to the hook member and its opposite end removably engaged by the hook member, and means for closing the hook opening to prevent accidental disengagement of the chain.

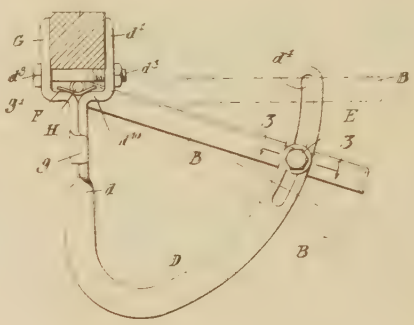
1,420,778. ATTACHING DEVICE FOR NONSKID CHAINS. GEORGE STAPLES, Oshkosh, Wis., assignor to Staples and Seefeld, Milwaukee, Wis., a Milwaukee Copartnership. Filed Apr. 15, 1920. Serial No. 374,211. 3 Claims. (Cl. 152—14.)



1. An attaching device for non-skid chains comprising two hook members with which the terminal links of a tread chain are engageable, a spring latch member adapted to bear against the inner side of one of said hook members thereby releasably closing the throat of said last mentioned hook member to retain the adjacent terminal link in engagement therewith, an inwardly extending lip carried by said latch member and projecting across the throat of said hook member, and laterally projecting ears formed on the inner end of said latch member whereby said latch member is of a greater width at its inner end than the adjacent terminal link.

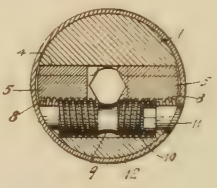
1,420,779. SUN AND STORM SHADE FOR AUTOMOBILES. HENRY W. STEWART, El Paso, Tex. Filed Apr. 23, 1921. Serial No. 463,884. 3 Claims. (Cl. 296—95.)

1. A sun and storm shield or shade for automobiles, comprising a body portion and frame members at opposite ends thereof, each frame member having a clamp comprising two shouldered parts adapted to be clamped on the front bow of an automobile top, and a clamping bolt, a pivot rod to which the rear of the body portion of the shield is attached and which is supported by said shouldered parts of the clamp and held in place by the clamping bolt, and interengaging means carried by the



front portion of the shield body and the outer ends of the frame members and forming adjustable connections therebetween.

1,420,780. CHUCK. LOUIS E. STONER, Hartford, Conn., assignor to The Jacobs Manufacturing Company, Hartford, Conn., a Corporation of Connecticut. Filed May 27, 1921. Serial No. 473,119. 1 Claim. (Cl. 279—68.)

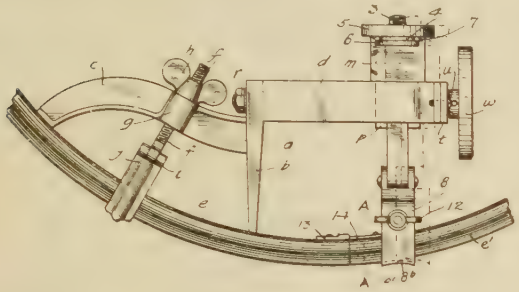


A chuck having a cylindrical body with a diametrical jaw opening and a screw pocket communicating with one side of the jaw opening and terminating within the body, said body having two tongues extending across the wall of the jaw opening opposite the screw pocket, two toothed jaws movable diametrical of the body in the jaw opening, said jaws having respectively right and left female threads in the middle of one of their side faces and grooves near the edges of the opposite side faces, said grooves receiving the tongues of the body, a feed screw with right and left threads engaging the threads in the sides of the jaws, said screw having an angular socket in one end and lying in the screw pocket in the body and held from longitudinal movement by the end wall of said screw pocket, a sleeve tightly fitting the cylindrical body, said sleeve closing the ends of the jaw opening and reenforcing the body about the ends of the screw pocket, and a plate detachably secured to the end of the body and closing the jaw opening on one side, whereby the jaws at all times and in all positions are entirely encased and firmly supported by the body.

1,420,781. RIM BREAKER. JOHN R. SUPPLE, Portland, Oreg. Filed May 11, 1920. Serial No. 380,459. 3 Claims. (Cl. 157—1.)

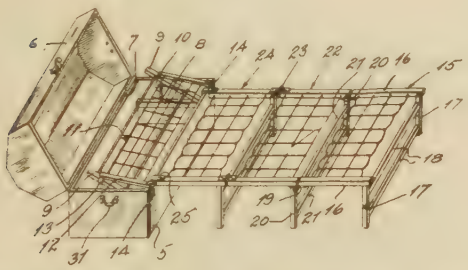
1. A device of the character described comprising a frame adapted for being firmly mounted on one section of a split tire rim so as to project over the split dividing the rim, a block carried by the frame and movable in a plane co-incident with the chord of the circle of the rim, means provided on said block for firmly holding the end of the other section of the rim, means for moving

the block thereby to separate and bring together again the divided rim sections at the split, and other means



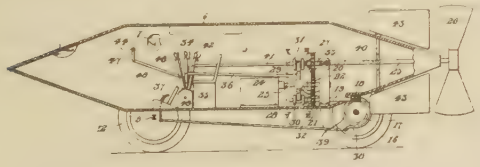
for moving said rim-holding means of the block diametrically inward and outward, thereby contracting and re-expanding the rim.

1,420,782. COMBINATION TRUNK. WAWRZYNIEC SUSKI, Flint, Mich. Filed June 30, 1921. Serial No. 481,443. 1 Claim. (Cl. 190—2.)



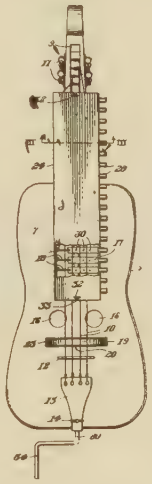
The combination with a case, cleats secured to opposite end walls of said case, strips hinged to the cleats adjacent their forward ends, a spring panel hinged to the cleats adjacent their rear ends, means on the spring panel for engaging the upper edge of the front wall of the case, and means for holding the rear ends of the strips in elevated position, of a plurality of spring panels adapted to be folded one upon the other, legs for holding said panels in elevated position in alignment with the upper edge of the front panel of the case, and means for attaching the foldable panels to the upper edge of the front wall of the case whereby the devices as a unit when extended will form a bed spring.

1,420,783. COMBINED LAND AND WATER VEHICLE. ANTON SWENCKI, Racine, Wis. Filed July 28, 1921. Serial No. 488,146. 1 Claim. (Cl. 115—1.)



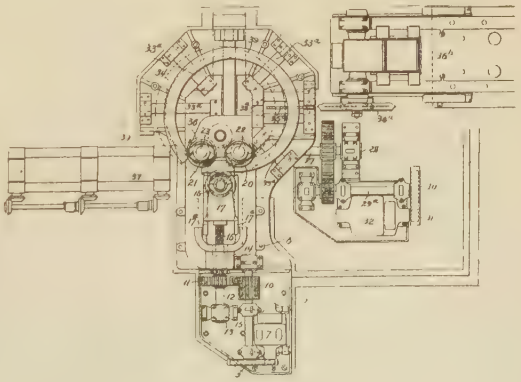
In a combined land and water vehicle, a hollow watertight body having a motor supported therein with a rearwardly extending power shaft, an upright bracket mounted within the body and having the rear end of said power shaft journaled therein and provided with a forwardly extending arm, a gear fixed upon the power shaft between the forward end of the arm and the bracket, a short shaft extending longitudinally of the body beneath the power shaft and journaled in said bracket, said shaft having a gear loosely mounted thereon in mesh with the first named gear and further having its rear end extended through the body, front and rear supporting wheels for said body, a driving axle carrying the rear supporting wheels and rotatably geared to the rear end of the second named shaft, a third shaft journaled in the bracket above the power shaft and extending axially of the body through the rear end of the latter, a propeller mounted upon the projecting rear end of the last named shaft, a third gear loosely mounted upon said last named shaft in mesh with the gear fixed upon the power shaft, and manually operable means within the body for clutching or unclutching the gears from the second and third named shafts.

1,420,784. STRINGED MUSICAL INSTRUMENT. BLASIUS SZYSLAK, Braddock, Pa. Filed Aug. 12, 1921. Serial No. 491,795. 2 Claims. (Cl. 84—315.)



1. A stringed musical instrument including a hollow body having a neck provided with tuning pegs, a tail piece, strings connecting the tail piece and the pegs, said hollow body including a belly portion with a transverse slot, a disk disposed within the body transversely of the latter and projecting outwardly through said slot with its periphery engaging said strings, and means to move said disk on an axis parallel to said strings.

1,420,785. METHOD OF AND APPARATUS FOR STRAIGHTENING ROLLED ENDLESS BILLETS. CLARENCE L. TAYLOR, Alliance, Ohio, assignor to The Morgan Engineering Company, Alliance, Ohio. Filed Nov. 5, 1919. Serial No. 335,901. 6 Claims. (Cl. 153—54.)

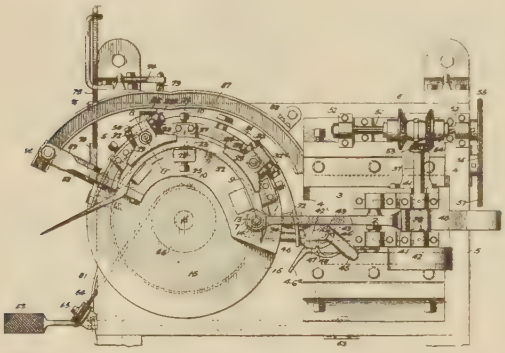


1. In an apparatus for straightening rolled endless billets, the combination of a horizontal support for the

endless billet, two positively driven feed rolls adapted to engage the inner face of said billet, an idler straightening roll co-acting with said positively driven rolls and adapted to engage the outer face of the billet, means for moving the straightening roll toward and away from the feed rolls, and cutting means movable toward the endless billet for severing the same prior to the movement of the billet between the feeding and straightening rolls.

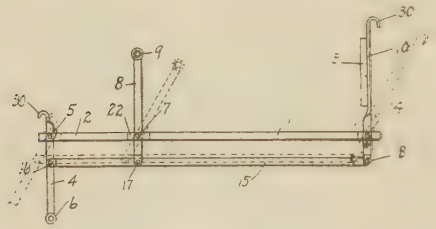
5. The method of converting a piece of metal, annular in form, into a straight section, which comprises squeezing a portion of the annular piece between rolls so as to straighten said portion, and then driving the rolls so as to run the piece through the rolls and straighten it from end to end.

1,420,786. MACHINE FOR SERRATING KNIFE BLANKS. GEORGE T. THATCHER, Auburn, N. Y. Filed Apr. 10, 1919. Serial No. 289,000. 15 Claims. (Cl. 29—82.)



1. In a machine for serrating the edges of knife blanks, the combination of a support for the knife blank, a serrating tool and holder therefor, means for actuating the holder to carry the tool into and out of engagement with the blank, and means for shifting the tool holder relatively to the support for the blank during the serrating operation to locate the serrations on the blank relatively to the edge thereof, substantially as and for the purpose specified.

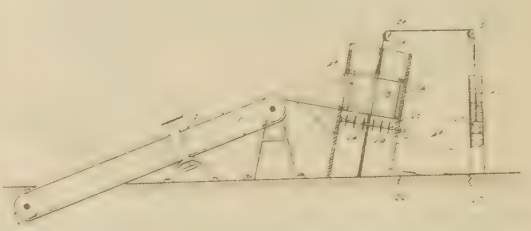
1,420,787. SWING. WILLIAM M. THOMAS, Cincinnati, Ohio. Filed Jan. 24, 1921. Serial No. 439,658. 6 Claims. (Cl. 155—65.)



1. In a swing of the class described, a seat and a back therefor, a connecting link disposed horizontally under said seat, a foot support rod and foot supports thereon, a handle bar carrying handles thereon, a foot supporting rod and foot supports thereon, said foot supporting rod, said handle bar and said back pivotally connected to the seat and to said connecting link.

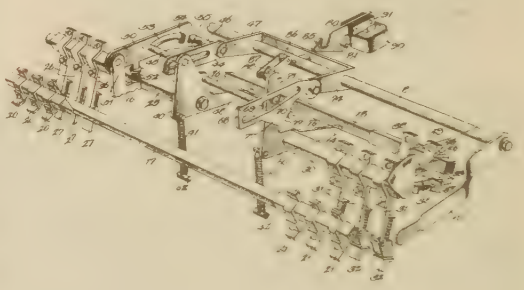
1,420,788. METHOD AND APPARATUS FOR SCORING ICE. MICHIEL J. ULINE, Cleveland, Ohio, assignor to The M. J. Uline Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 6, 1921. Serial No. 435,299. 8 Claims. (Cl. 125—13.)

1. The herein described method which consists in ele-



vating a block of ice and simultaneously scoring the sides thereof and then lowering said block of ice and simultaneously scoring the sides thereof in a direction transverse to the first score.

1,420,789. MOTOR-STARTING SWITCH. HERMON L. VAN VALKENBURG, Milwaukee, Wis., assignor to Industrial Controller Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed July 25, 1918. Serial No. 246,635. 33 Claims. (Cl. 200—18.)

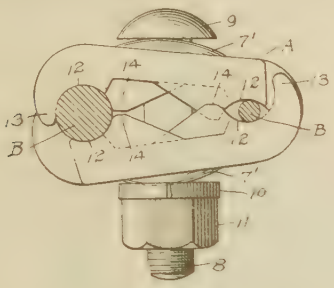


1. In combination, two electric switches, an oscillatory handle adapted to move forward and back, and mechanism actuated by said handle for causing said switches to be closed seriatim on different forward movements of said handle, said mechanism being adapted to permit the handle at all times to move forward to a position in which the second switch will be closed, and said mechanism on the first forward movement of the handle from initial position being adapted to close the first switch, and on the second forward movement of the handle to close the second switch provided said handle on its second forward movement starts from a point forward of the initial position of the handle but otherwise moves through substantially the same arc as before.

1,420,790. CLAMP DEVICE FOR ELECTRIC CONDUCTORS. THEODORE VARNEY, Sewickley, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 14, 1920. Serial No. 403,456. 10 Claims. (Cl. 24—135.)

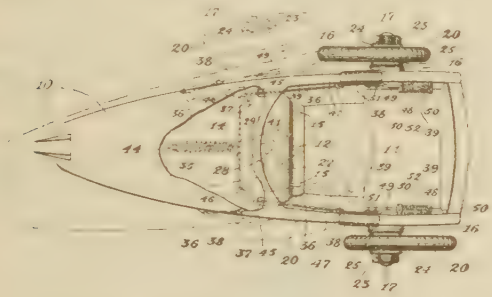
9. A clamp for parallel wires comprising a pair of opposed plates, curved seat portions extending along each side of said plates on the adjacent faces thereof, spaced apart extensions along the outside of said seat portions, the extensions on one side being staggered with relation to those on the other and with relation to those on the adjacent side of the opposite plate, spaced apart pro-

jections adjacent the inner sides of the seat portions and which are staggered with relation to said extensions, said



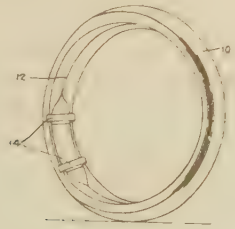
extensions and projections being adapted to form wire engaging means, and means for holding the plates in clamped relation.

1,420,791. COMBINED PROPELLING AND STEERING MECHANISM FOR VELOCIPEDES. MANGOLD WAGNER, Seattle, Wash. Filed May 16, 1921. Serial No. 469,818. 6 Claims. (Cl. 208—38.)



1. A combined velocipede propelling and steering mechanism comprising eccentric driving means; steering means; resilient control means for said eccentric driving means carried by said steering means; and means to yieldingly retain said steering means in a medial position.

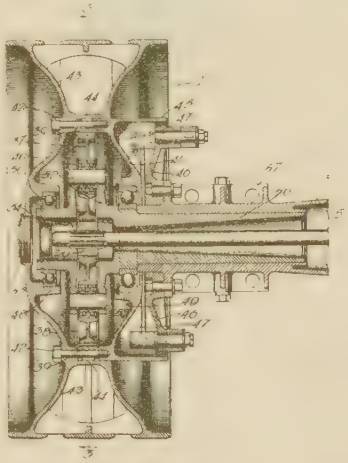
1,420,792. TIRE TOOL. WILLIAM H. WALDROFF, Minneapolis, Minn. Filed Apr. 1, 1922. Serial No. 548,816. 1 Claim. (Cl. 152—27.)



A tire tool of sheet material comprising two integral members bent at right angles to each other, one of said members being shorter than the other and provided with flanges at its ends bent at right angles to said shorter member, whereby the ends of said longer member project to form guides.

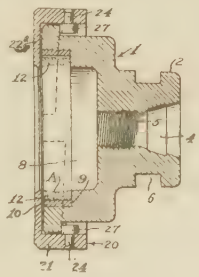
1,420,793. DRIVING MECHANISM. GEORGE R. WALKER, Chicago, Ill., assignor, by mesne assignments, to Walker Vehicle Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 4, 1919. Serial No. 315,129. 1 Claim. (Cl. 74—7.)

In combination, a pair of traction wheels provided internally with gears rigidly secured thereto, a continuous hollow axle casing extending between said wheels, a pair of drive shafts arranged within said casing co-axial with the axis of rotation of the traction wheels, a differential arranged between said drive shafts, a gear housing within each traction wheel, the opposite ends of the drive shafts extending into said gear housings and carrying pinions, yoke members at the opposite ends of the hollow axle casing constituting axle supports upon which the traction wheels are journaled, said yoke members having hub portions provided with portions extending radially therefrom and terminating in substantially the same plane short of the gear secured to the wheel, intermediate gears



interposed between said pinions and the gears rigidly secured to the wheels, said intermediate gears being mounted through bearing members upon shafts mounted in the radial yoke extensions, said bearing members including inner and outer race members, the radial yoke extensions being formed to cooperate with the inner and to clear the outer race members of said bearings, supporting bearings on the yoke members for the respective wheels, the opposite ends of the hollow axle casing extending through the adjacent walls of the gear housing within the wheels and into cooperation with said wheel supporting bearings to position the same.

1,420,794. FLYING CHUCK. ALGOT EMANUEL WALLER, West Hartford, Conn., assignor to The Skayef Ball Bearing Company, Hartford, Conn., a Corporation of Connecticut. Filed Feb. 24, 1919, Serial No. 278,831. Renewed Feb. 13, 1922. Serial No. 536,340. 2 Claims. (Cl. 279—1.)



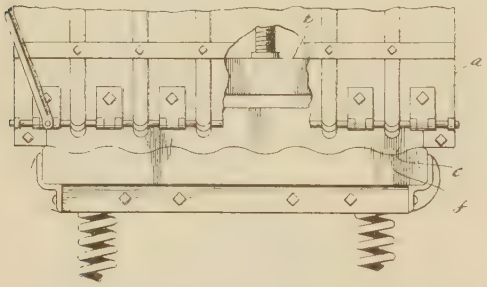
1. In an apparatus of the character described, the combination with a chuck body having an opening in its front end surrounded by an annular seat and an annular front face, lugs disposed on the sides of the body and provided at the rear with cam faces forming acute angles with the said front face, a chucking ring comprising a side wall and an annular face portion, in-

wardly overhanging the said front face, and a pair of diametrically oppositely disposed engaging members on the said side wall and adapted to engage said cam faces, the chucking ring and cam faces being so organized that the inertia of said ring tends to lock the chuck and the momentum thereof to unlock the same.

1,420,795. WRENCH. FREDERICK H. WARD, Brooklyn, N. Y. Filed May 25, 1921. Serial No. 472,551. 9 Claims. (Cl. 81—111.)

1. In a wrench, a pair of hingedly connected handles, jaw heads formed with said handles, one of said heads gradually increasing in thickness from its median longitudinal plane to the edge opposite the jaw, means for clamping said heads together, and means formed on the adjacent faces of said heads, through which said clamping means pass, whereby they are rigidly held in an adjusted position when clamped.

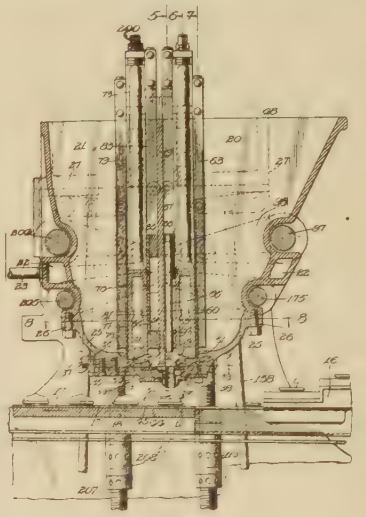
1,420,796. BRICKMAKING. GEORGE A. WARNER, Detroit, Mich. Filed Dec. 29, 1921. Serial No. 525,591. 5 Claims. (Cl. 25—48.)



1. In a molding apparatus for forming bricks or similar articles, the combination of a mold box provided with a plurality of compartments and having side walls that are corrugated or fluted, and a member having matching corrugations or flutings that can be passed over the mold box to corrugate the plastic bricks, for the purpose specified.

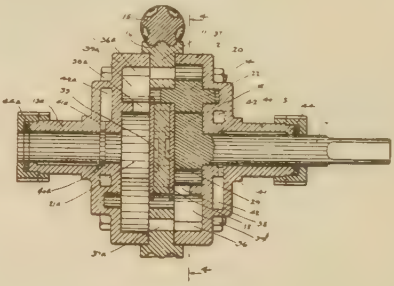
1,420,797. DEPOSITING MACHINE. FREDERICK WESTERMAN, Chicago, Ill. Filed May 22, 1918. Serial No. 235,927. 16 Claims. (Cl. 107—28.)

1. A depositing machine comprising a chamber for confection provided at its bottom with a row of vertically disposed discharge openings, a long, movable plunger located within said chamber, both of the vertical side walls of said plunger being spaced at a distance from the corresponding vertical walls of said chamber to permit free access of confection to the opposite sides of said plunger, valve mechanism within said chamber and at one side of



said plunger to check the flow of confection beneath said plunger, and means for operating said valve mechanism and said plunger in timed relation.

1,420,798. HYDRAULIC TRANSMISSION MECHANISM. WILLIAM S. WESTON, Houston, Tex. Filed July 5, 1917. Serial No. 178,571. 11 Claims. (Cl. 74—7.)

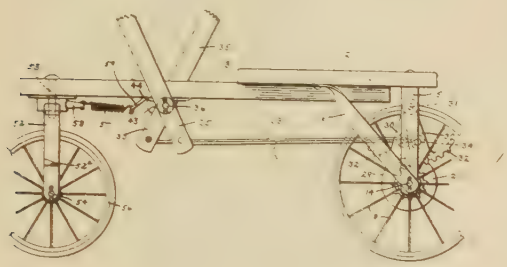


1. Intermeshing spur gear pump gears, for hydraulic clutches, and other like mechanisms adapted to transmit power or a rotative movement when interlocked by a liquid medium confined on the compression side thereof, the said gears having teeth with true cylindrical surfaces and having interdental spaces with short parallel surfaces, the said cylindrical surfaces having on their diametrically opposite sides rolling sliding contacts with the said parallel surfaces of the indentations of the companion gear, the intermeshing relation being such that the tooth of one gear comes into contact on opposite sides at the moment an adjacent tooth of the companion gear draws out of contact on its opposite sides.

1,420,799. MANUALLY-PROPELLED VEHICLE. JOHN F. WILKINSON, Gardner, Mass. Filed June 3, 1921. Serial No. 474,707. 13 Claims. (Cl. 208—37.)

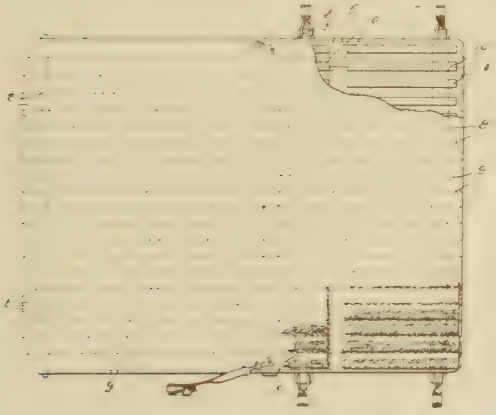
1. A manually propelled vehicle comprising a body, running gear including an axle supported below the body, and a loose driving-wheel on the axle, and manually operable wheel-driving mechanism including a driving member engaged with the driving wheel to rotate therewith, said driving member being loosely rotatable on the axle, and provided with an annular clutch face concentric with and spaced from the axle, an eccentric hub adapted to rock or oscillate in a path concentric with the axle, and with

the annular clutch face, an oscillating dog adapted to swing on said hub, and having a clutch face at its outer end, adapted to engage said annular clutch face, and manually operable means for rocking said hub, the



arrangement being such that when the hub is turned in one direction, it causes an operative engagement of said clutch faces, and when the hub is turned in the opposite direction, the clutch faces are disengaged.

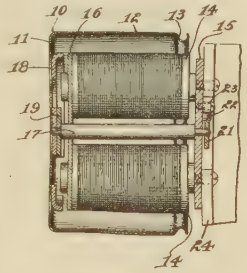
1,420,800. AUTOMOBILE BED. HARRY WISE, Yakima, Wash. Filed June 7, 1921. Serial No. 475,794. 1 Claim. (Cl. 5—72.)



An automobile bed comprising a flexible casing stitched transversely adjacent one end to afford a main bed section and a hinged end section, stiff longitudinal elements arranged in each section and having their opposed ends disposed upon opposite sides of the stitching whereby to permit the hinged end section to be folded on the main bed section, and means for supporting the bed sections in a horizontal plane in the automobile when in use.

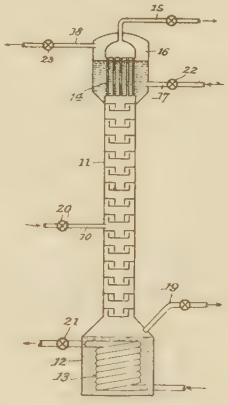
1,420,801. ROTARY ANNUNCIATOR. FRANK W. WOOD, Montclair, N. J., assignor to Charles Cory & Son, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 24, 1919. Serial No. 332,985. 7 Claims. (Cl. 177—329.)

1. In a signalling apparatus, a plurality of magnets having their axes parallel, the magnets being provided with pole pieces the faces of which lie in a plane normal to such axes, an armature lying and movable in a plane parallel to said first mentioned plane; said armature being rotatable about an axis paralleling the axes of the magnets and being provided with wing means overlying and cooperating with the magnet pole pieces, and a signal element comprising a drum having an open bottom, the top of the drum carrying the armature and the cylindrical walls of



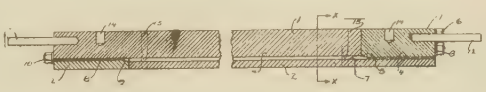
the drum encircling and housing the magnets, the armature and the drum being movable by selective energization of the magnets.

1,420,802. PROCESS FOR RECOVERING CONSTITUENTS OF AIR OR OTHER GASEOUS MIXTURES. RUDOLF WUCHERER and FRANZ POLLITZER, Munich, Germany, assignors, by mesne assignments, to The Linde Air Products Company, New York, N. Y., a Corporation of Ohio. Filed Aug. 24, 1917. Serial No. 188,039. 3 Claims. (Cl. 183—115.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A process for obtaining by rectification from a mixture containing argon a fraction enriched in argon, which comprises, feeding the mixture to be treated to a rectification apparatus, and transferring heat through said apparatus between points to which heat is supplied and from which heat is removed by outside agencies, at a rate not materially less than that at which heat would be absorbed by the evaporation of all the mixture being fed to the apparatus.

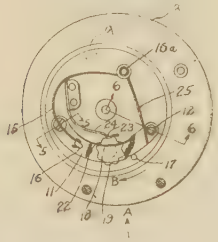
1,420,803. MOLD FOR HEAVY-TRUCK TIRE FLAPS. ADRIAN O. ABBOTT, Jr., Detroit, Mich., assignor to Morgan and Wright, a Corporation of Michigan. Filed Oct. 4, 1920. Serial No. 414,494. 2 Claims. (Cl. 18—42.)



1. A fishing reel, comprising a frame, a spool rotatable therein and provided with an end head having a concave

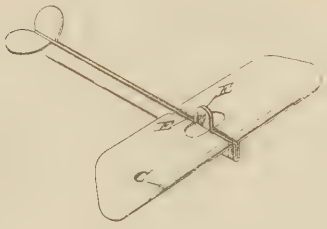
outer face, a pivot member on said frame, and a brake member loosely mounted upon said pivot member to swing both parallel to and toward and from the spool head.

1,420,804. ANTIBACKLASH ATTACHMENT FOR FISHING REELS. WALTER L. ADAMS, Akron, Ohio, assignor to The Enterprise Manufacturing Company, Akron, Ohio, a Corporation of Ohio. Filed June 1, 1920. Serial No. 385,538. 5 Claims. (Cl. 242—84.5.)



1. A fishing reel, comprising a frame, a spool rotatable therein and provided with an end head having a concave outer face, a pivot member on said frame, and a brake member loosely mounted upon said pivot member to swing both parallel to and toward and from the spool head.

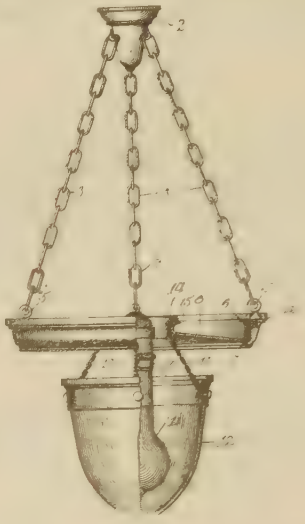
1,420,805. TOY AEROPLANE. ARTHUR D. BAEHR, Detroit, Mich. Filed Apr. 27, 1922. Serial No. 556,922. 2 Claims. (Cl. 244—12.)



2. A toy aeroplane formed from a single blank of sheet material to include an integral body, wing, tail and a pair of upstanding tabs on which the picture of an aviator may be printed, said wing portion having a marginal extension folded beneath the wings in adjacent relation thereto, said body portion being bent longitudinally and medially to provide a double wall with wing and tail portions bent to extend laterally therefrom, and a sheet metal strip lodged between the wing portion and its underlying marginal extension bent to conform to the folds in the body and wing portions, whereby the latter may maintain their bent formation.

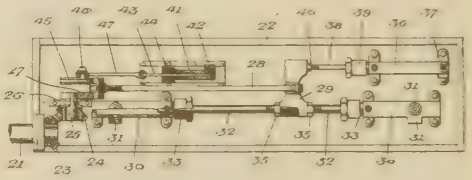
1,420,806. LIGHTING FIXTURE. FREDERICK C. BAKER, Portland, Oreg. Filed Apr. 1, 1918. Serial No. 225,958. 2 Claims. (Cl. 240—78.)

1. In a lighting fixture, the combination with a reflector, a canopy, an annular frame secured to said canopy, chains depending from said canopy and secured to said frame and extending thereto, a shoulder formed on said frame adapted to support said reflector, a central chain, a socket secured to its lower end, an electric light bulb supported by said socket, a shield, a spider which



supports said shield, and having a ring adapted to fit inside of the center of said reflector.

1,420,807. PUMP DRIVE APPARATUS. HARTLEY O. BAKER, Pueblo, Colo., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Filed Mar. 17, 1919. Serial No. 283,219. 1 Claim. (Cl. 103—79.)

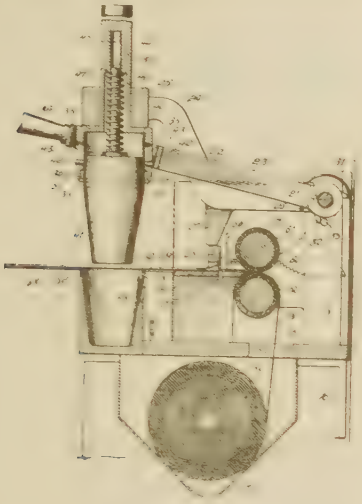


A pumping apparatus for several different fluids comprising a pair of opposite pump cylinders, a cross head between said cylinders, individual plunger rods connected to said cross heads and extending in opposite directions and working in said cylinders, a third cylinder at one side of one of the aforesaid cylinders, a plunger rod working in the third cylinder, said cross head extending to one side from the first-named plunger rods, the last-named plunger rod being connected to said cross head, a fourth cylinder located at the corresponding side of the other of the first-named cylinders, a crank shaft mounted for rotation adjacent to the last-named cylinder of the pair, and having a crank at one end with one arm free, a connecting rod connecting said crank and cross head and working between the last-named cylinder of the pair and the fourth cylinder, a plunger rod for the fourth cylinder, a wrist pin adjustable along said free arm, and a connecting rod connecting said wrist pin and last-named plunger.

1,420,808. MACHINE FOR MAKING PAPER CUPS. CHARLES S. BATDORF, Brooklyn, N. Y. Filed Nov. 7, 1918, Serial No. 261,445. Renewed Dec. 13, 1921. Serial No. 522,145. 10 Claims. (Cl. 93—60.)

1. In a machine of the character described, a female die having converging walls over which paper for a cup may be placed, a male die having tapered walls for forcing the paper into said female die and leaving a part of the paper projecting upwardly and flared outwardly around the edges of the same, a cutting die around the upper portion of said male die adapted to enter within and engage said upwardly projecting portion

of the paper and fold the same downwardly around the upper end of the female die to form a lip in the cup and



cut off the surplus portion of the paper around said lip, and means for effecting the operation of said male and cutting dies.

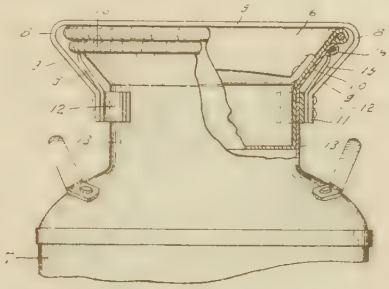
1,420,809. EXTENSION HANDLE. JOHN W. BATE, Racine, Wis. Filed Oct. 6, 1921. Serial No. 505,763. 3 Claims. (Cl. 74—39.)

1. In combination, a lever, a pawl for locking said lever, a rod carried by said lever for operating said pawl, an extension handle pivotally secured to the lever, means for securing it in any adjusted position and means carried by said handle for operating the rod.

1,420,810. INTERLOCKING BRICK AND THE LIKE. GUY M. BEAN, Los Angeles, Calif. Filed May 18, 1920. Serial No. 382,295. 2 Claims. (Cl. 72—38.)

1. A brick having a tapered projection and a correspondingly shaped socket at one face and arranged end to end and located inwardly of the edges of said face of the brick.

1,420,811. LOCK FOR MILK-CAN TOPS. GUY S. BREWSTER, Seattle, Wash. Filed Aug. 8, 1921. Serial No. 490,484. 2 Claims. (Cl. 220—94.)

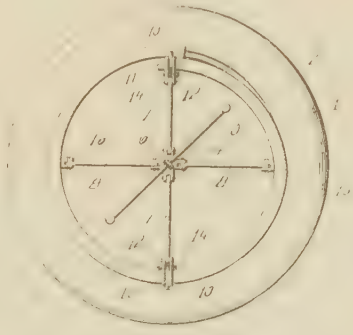


1. A milk can clip comprising a strip of flat spring metal consisting of a straight top member that is bent at both ends to form convergent side members, curved arms secured to the ends of said convergent side members, and stop members secured to the ends of said convergent side members and extending upwardly along the inner sides of said convergent side members in spaced relation and terminating at a distance from the straight top member.

1,420,812. TIP FOR WEBBING. ARNOLD V. BROWN, Oak Park, Ill. Filed Sept. 23, 1921. Serial No. 502,633. 2 Claims. (Cl. 241—16.)

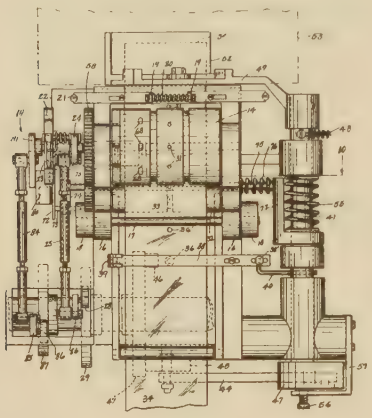
2. The combination with a bar member of a buckle, of a webbing having on an end thereof a clip extending across the same and provided with a portion forming a broad flat hook engaged with an edge of said bar.

1,420,813. RIM TOOL. WILLIAM HUMPHREY BUTTRAM, Sallisaw, Okla., assignor of one-half to R. Kobel, one-fourth to W. D. Mayo, and one-fourth to J. M. Mayo, all of Sallisaw, Okla. Filed June 8, 1921. Serial No. 475,940. 1 Claim. (Cl. 157—1.)



A rim tool of the character described comprising a central member adapted for rotation, a pair of cross blocks on said member, radially disposed arms extending from said blocks at right angles and pivotally connected therewith at their inner ends, the opposite ends of each adjacent pair of arms terminating in spaced relation, arcuate castings pivotally connecting the free ends of each adjacent pair of arms that are disposed in alinement, rim engaging hooks adjustably mounted in the ends of said castings, and rectangular shaped rim abutting heads pivotally connecting the free ends of the remaining adjacent pairs of arms that are alined.

1,420,814. ADDRESSING MACHINE. MILTON F. CHESHIRE, Chicago, Ill., assignor to Thomas A. Cheshire, Des Moines, Iowa. Filed Nov. 29, 1920. Serial No. 427,039. 13 Claims. (Cl. 216—27.)



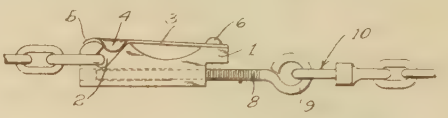
1. An addressing machine comprising a feed roller having projections thereon arranged to engage perforations in a perforated address strip, there being also recesses in the periphery of said roller arranged to register with additional perforations in said strip, and means cooperating with the recesses in said roller whereby the lengths of said strip to be severed are accurately measured and creeping or lagging of said strip prevented; and means for operating said roller to feed said strip, substantially as described.

1,420,815. CASKET HANDLE. RALPH F. CHRISTIAN, Chicago, Ill. Filed Dec. 8, 1919, Serial No. 343,237. Renewed May 8, 1922. Serial No. 559,453. 3 Claims. (Cl. 16—112.)

1. A casket handle comprising an escutcheon plate; a hanger bar pivotally mounted on said plate, said bar being formed trough-shaped at its upper end; and means on said plate for engaging in said end of said bar for limiting its upward swinging, said means comprising a tongue punched out of said plate and adapted to engage the inner surface of said end of said bar forming a limiting stop for said bar, substantially as described.

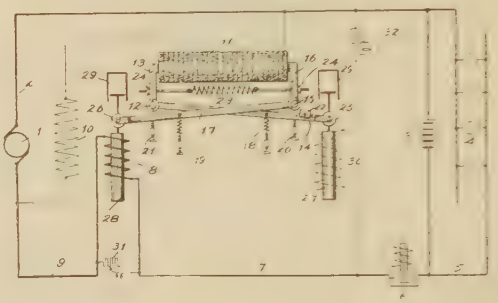
1,420,816. ADJUSTABLE HOOK FOR ANTISKID CHAINS. CHESTER D. COLE and WINSLOW J. BURTT, Haverhill, Mass. Filed Feb. 6, 1922. Serial No. 534,438. 4 Claims. (Cl. 24—68.)

1. In a device of the class described, the combination of a hook member, said member having a hook socket, a spring tongue adapted to engage over the said socket, the other end of said spring tongue being pivotally attached



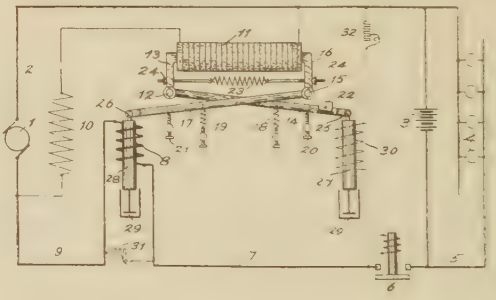
to the hook and being laterally swingable, and means for connecting the other end of the hook with an anti-skid chain.

1,420,817. ELECTRIC REGULATION. JOHN L. CREVELING, White Plains, N. Y., assignor to Gould Coupler Company, a Corporation of New York. Filed Nov. 1, 1916, Serial No. 128,819. Renewed Apr. 17, 1922. Serial No. 553,920. 8 Claims. (Cl. 171—229.)



7. The combination with regulating means, a plurality of separately movable means capable of separately affecting the same and uniting means causing cooperation between said affecting means, of a plurality of responsive means each capable of movement without affecting said affecting means and affecting the same under predetermined conditions of operation.

1,420,818. ELECTRIC REGULATION. JOHN L. CREVELING, White Plains, N. Y., assignor to Gould Coupler Company, a Corporation of New York. Filed Nov. 1, 1916, Serial No. 128,820. Renewed Apr. 17, 1922. Serial No. 553,921. 20 Claims. (Cl. 171—229.)

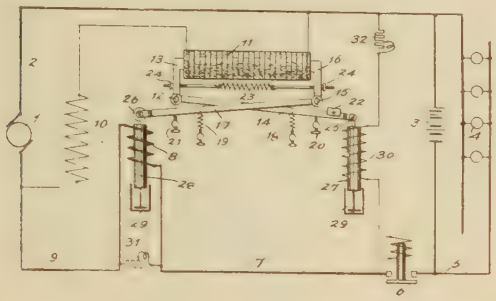


12. The combination with regulating means, a plurality of movable means for separately affecting the same and movable means for moving the affecting means, of means uniting the affecting means and causing cooperation therebetween.

1,420,819. ELECTRIC REGULATION. JOHN L. CREVELING, White Plains, N. Y., assignor to Gould Coupler Company, a Corporation of New York. Filed Nov. 1, 1916, Serial No. 128,821. Renewed Apr. 17, 1922. Serial No. 553,922. 6 Claims. (Cl. 171—229.)

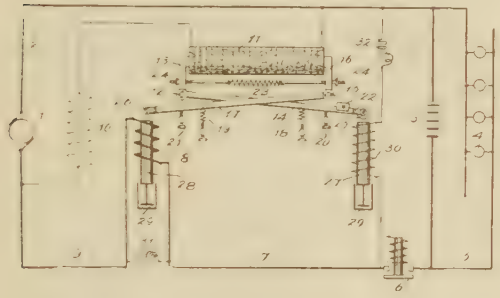
6. The combination with regulating means, a plurality of separately movable means for affecting the same and

voltage responsive means connected with one of said affecting means whereby any action therein affects the regulating means, of current responsive means capable of



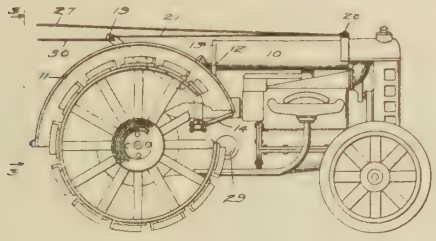
moving without affecting the regulating means and also arranged to engage another of the affecting means to operate the regulating means.

1,420,820. ELECTRIC REGULATION. JOHN L. CREVELING, White Plains, N. Y., assignor to Gould Coupler Company, a Corporation of New York. Filed Nov. 1, 1916, Serial No. 128,822. Renewed Apr. 17, 1922. Serial No. 553,923. 6 Claims. (Cl. 171—229.)



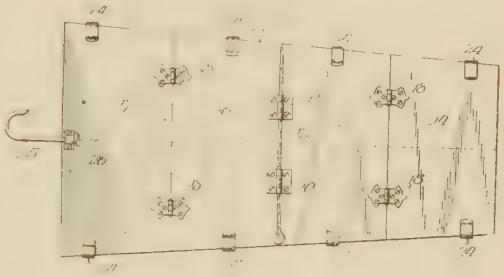
6. The combination with regulating means, a plurality of separately movable means for affecting the same and current responsive means connected with one of said affecting means whereby any motion therein affects the regulating means, of voltage responsive means capable of moving without affecting the regulating means and arranged to engage another of the affecting means to operate the regulating means.

1,420,821. CLUTCH-CONTROL LOCK. PAUL H. DASEN, Ottosen, Iowa. Filed Apr. 13, 1921. Serial No. 461,152. 6 Claims. (Cl. 74—39.)



6. In a device of the class described adapted to be fixed to a clutch control lever of a tractor or the like, a lever, means for pivotally securing said lever to the clutch control lever, a link pivotally fixed to said lever and having its free end pivotally fixed to an immovable part of the tractor and a cord secured to said lever for operating it from a distance, the parts being so arranged that moving said lever in one direction will cause the parts to past center and cause the clutch control lever to be held against its normal movement.

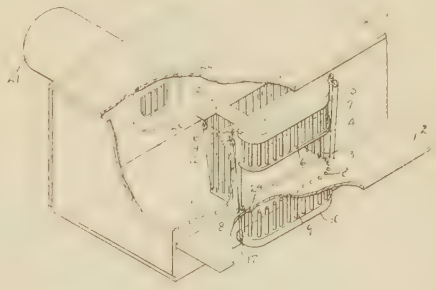
1,420,822. TROUSERS PRESSER. DANIEL D. DEWEY and LEO G. SAWDY, Escanaba, Mich. Filed Oct. 28, 1921. Serial No. 511,077. 3 Claims. (Cl. 100—57.)



1. In a pressing device, the combination of a pair of pressing boards, means for clamping the same together, each of said boards being transversely divided at a point substantially midway between its ends, hinges joining the divided sections of each board, the sections of one board being additionally transversely divided and hinged, and the sections of the other board being longitudinally divided and hinged.

3. In a device of the class described, the combination of a pair of boards, spring clips for clamping trouser legs therebetween, each of the boards being transversely divided and hinged at a point between its ends, means permitting ready separation of the hinged sections, each of the hinged sections of each board being additionally divided and hinged, whereby each board may be separated into two sections and the parts of each section be folded back to back.

1,420,823. TRAP. EARL T. DINKINS, Houston, Tex. Filed June 20, 1921. Serial No. 478,839. 5 Claims. (Cl. 43—61.)

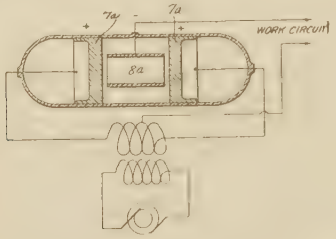


1. A trap comprising a closed chamber and having an opening in one side thereof; a platform in front of said opening, a pedal in said opening adapted to be tripped by the weight of an animal, upper and lower doors slidable relative to said opening, said doors being operated by the dropping of said pedal.

1,420,824. RECTIFIER. HAROLD P. DONLE, Meriden, Conn. Filed May 31, 1921. Serial No. 474,006. 10 Claims. (Cl. 175—363.)

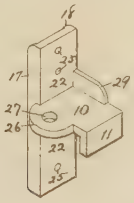
1. In a rectifier, a vacuum tube, two electrodes within said tube and having their adjacent faces arranged so

close together as to minimize ionization between them under one direction of applied potential, one of said



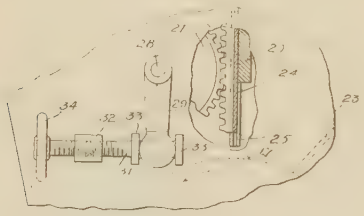
electrodes having an orifice providing an ionizing path along its axis.

1,420,825. POST STEP OR BRACKET. JOHN N. DUNCAN, Boone, Iowa. Filed Oct. 14, 1920. Serial No. 416,884. 2 Claims. (Cl. 105—408.)



1. A post-step or bracket having a body formed with one end flange and a head parallel with said flange and crossing the plane of the body, said body and head having a corner lug, said head having side ribs and bolt-holes between said ribs, and means for securing said body to a support independent of the flanges.

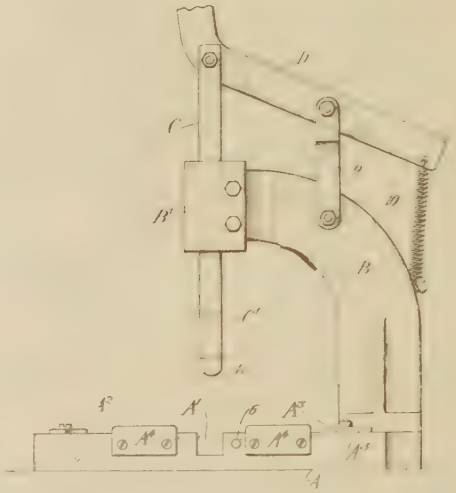
1,420,826. MECHANISM FOR CONVERTING ROTARY MOTION INTO RECIPROCATING MOTION. FREDERICK W. FERNHOLTZ, Los Angeles, Calif. Filed Apr. 8, 1918, Serial No. 227,237. Renewed Apr. 10, 1922. Serial No. 551,213. 2 Claims. (Cl. 74—27.)



1. A mechanism for converting a rotary motion into a reciprocating motion, comprising a sliding member provided with a rack-bar, a pivoted toothed member adapted to engage with said rack-bar, a threaded adjusting shaft mounted in a threaded bearing arranged adjacent said toothed member, and means connecting said toothed member and adjusting shaft, whereby when said adjusting shaft is rotated the toothed member will actuate the sliding member.

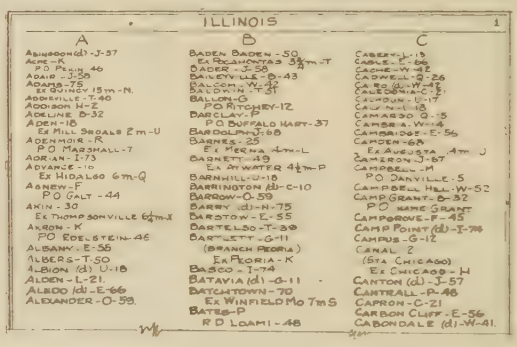
1,420,827. MACHINE FOR APPLYING A COVER OR BINDING TO A CASING SECTION. CHARLES FISHER, Chicago, Ill., assignor to The Automatic Recording Safe Company, Chicago, Ill., a Corporation of Illinois. Filed May 5, 1921. Serial No. 467,079. 6 Claims. (Cl. 93—54.)

1. The combination of a bed provided with a socket, a holder in said socket adapted to accommodate the back-portion of a casing-section, a plunger adapted to engage and depress the casing-section and stretch the interme-



diate portion of a cover over the back-portion of said casing-section, and means for clamping the casing-section and cover to said holder.

1,420,828. GUIDE SHOWING COMPARATIVE EXPRESS AND PARCEL-POST SHIPPING RATES. CHARLES W. FLINT, Chicago, Ill. Filed Jan. 8, 1920. Serial No. 350,089. 13 Claims. (Cl. 283—36.)


ILLINOIS 1

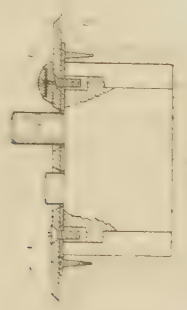
A	B	C
Abingdon (d) J-57	Baden Baden-S9	Cabery-L-13
Acme-K	Ex Richmond 3½m-T	Cable-E-68
P O Pekin 46	Bader-E-58	Cache-W-48
Adair-J-56	Bailey Ville-B-43	Cadwell-Q-26
Adams-T5	Balcom-Y-37	Cairo (d)-W-64½
Ex Quincy 15m-N.	Baldwin-M-21	Caledonia-C-11
Addieville-T-40	Ballon-G	Calhoun-L-17
Addison W-2	P O Ritchey-12	Calumet-L-18
Adeline B-32	Barclay-F	Camargo Q-15
Aden-16	P O Buffalo Hart-37	Cambria-W-46
Ex Mill Shoals 2m-U	Bardolph-J-88	Cambridge-E-56
Adenmoir-R	Barnes-25	Camden-68
P O Marshall-7	Ex Perna 4½m-L	Ex Augusta 4m J
Adrian-I-73	Barnett-49	Cameron J-67
Advance-10	Ex Atwater 4½m-P	Campbell-M
Ex Hidalgo 6m-Q	Barnhill-U-18	P O Danville-5
Agnew-F	Barrington (d) C-10	Campbell Hill-W-52
P O Galt-44	Barrow-O-59	Camp Grant-B-32
Akin-30	Barry (d)-N-75	P O name Grant
Ex Thompsonville 6½m-I	Barstow-E-55	Camp Grove-F-45
Akron-K	Bartelso-T-39	Camp Point (d)-J-78
P O Edelstein-46	Bartlett-G-11	Campus-G-12
Albany-E-55	(Branch Peoria)	Canal 2
Albers-T-50	Ex Floria-K	(Sta Chicago)
Albion (d) U-18	Basco-I-74	Ex Chicago-H
Alden-L-21	Batavia (d)-G-11	Canton (d)-J-57
Alden (d)-E-66	Batchtown-70	Cantrall-P-48
Alexander-O-59	Ex Winfield Mo 7m S	Capron-C-21
	Bates-P	Carbon Cliff-E-56
	R D Loami-48	Carbondale (d)-W-41

1. The herein described guide for showing comparative shipping rates or tariffs by parcel post and express comprising a list of shipping destinations arranged in alphabetical order by States or other geographical subdivisions in combination with a rate sheet for the said State or geographical sub-division, said rate sheet comprising tabulated express rates arranged in a plurality of columns designated by scale numbers with each of said columns containing graduated rates for shipments of different weights by express, parcel post rates arranged in tabulated form by zones in columns similar to said express rates and designated by zone numbers, and abbreviated key designations for indicating the numbers of the respective express blocks and parcel post units of area in which the various shipping destinations in the said list are located, said abbreviated key designations being also used to identify the corresponding express scale and parcel post zone columns of rates on the said rate sheet.

1,420,829. ATTACHMENT FOR ELECTRIC SWITCHES. MAXWELL C. FRANK, Piedmont, Calif. Filed Feb. 7, 1917. Serial No. 147,119. 4 Claims. (Cl. 240—1.)

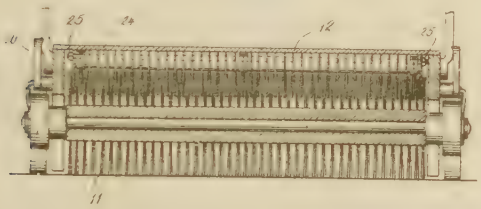
1. A cover-plate attachment in the form of a screw, comprising a threaded shank and a solid head recessed at

its face side to receive luminous material, a hole through said solid head for holding an instrument for turning



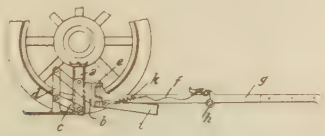
the screw into binding position, said shank and head being formed of one piece of material and adapted to be substituted for one of the connecting screws of the plate.

1,420,830. CARPET-SWEEPER ATTACHMENT. HENRY FRANKENSTEIN, New York, N. Y. Filed Jan. 30, 1919. Serial No. 273,966. 6 Claims. (Cl. 15—48.)



1. An attachment for carpet sweepers comprising a plurality of triangular blades, blocks between the blades, a rod passing through the blades and blocks, means near the ends of the rod for clamping said parts together, and means for affixing the assembled blades and blocks to the casing of a sweeper with the blades in positions symmetrical in relation to a plane passing through the axis of the brush of the sweeper and the bases of the blades and projecting through the periphery of the brush.

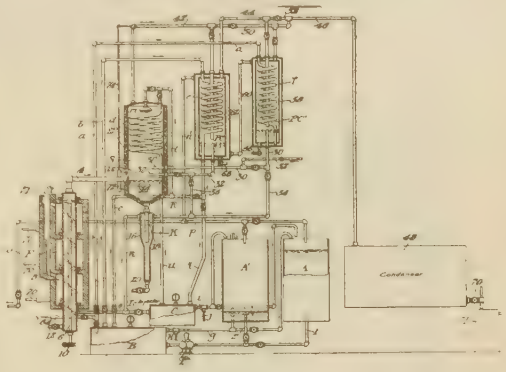
1,420,831. LIFT JACK. JAKOB FÜRST, Zurich, Switzerland. Filed June 23, 1920. Serial No. 391,198. 2 Claims. (Cl. 254—123.)



1. In a lifting-jack, a supporting post, a hand-lever pivoted to said post, a lifting rod pivotally carried on the hand-lever, a link pivotally connecting the lifting rod with the supporting post, a rest pivoted to the hand-lever, and a spring and tensioning device for holding up said rest against the hand-lever.

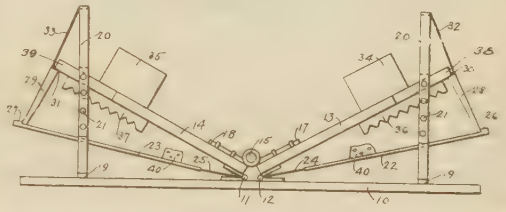
1,420,832. PROCESS FOR CRACKING OILS. RUSSELL D. GEORGE, Boulder, Colo. Filed Sept. 14, 1921. Serial No. 500,510. 8 Claims. (Cl. 196—25.)

2. The process which consists in heating heavy hydrocarbon oils in continuous flow through an upright still to a cracking temperature; delivering the heated oil from the top of the still to the separating chamber wherein is maintained a pool of hot oil at a level above the still; permitting the vapors to separate from the oil and collecting and condensing the same; delivering the oil from the



said pool to a carbon separator, delivering the cleaned oil from the carbon separator to the lower portion of the still and keeping the amount of free carbon in the cleaned oil below 1%.

1,420,833. ANIMAL TRAP. WILLIAM GEDVILLAS, Madison, Ill. Filed Sept. 14, 1921. Serial No. 500,551. 2 Claims. (Cl. 43—81.)



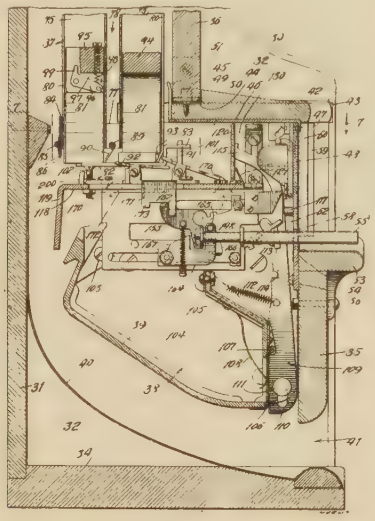
2. In a trap of the character described comprising a base board, a pair of adjustable vertical hoops secured with their lower feet on said base board, a pair of trapping boards, the adjustment of said hoops allowing an adjustment of the height of said trapping boards, hinges connecting the lower inner edges of said trapping boards to the base board in approximately the middle thereof, a coil spring connecting the upper inner edges of said trapping boards, and pressing with its free ends on the upper faces of said trapping boards, means for securing the ends of said spring to said boards, weights on top of said trapping boards and blocks provided with a plurality of springs on the lower face of said boards, a pair of tongues each provided with a frontal shoulder, strings for securing the inner ends of said tongues to said hinges, pintles engaging with their lower ends said shoulders and with their upper edges the lower front edges of said trapping boards, and strings securing said pintles to said hoops.

1,420,834. COIN-CONTROLLED VENDING MACHINE. HARVEY GILES, Brooklyn, N. Y., assignor to Artemas Ward, New York, N. Y. Filed June 3, 1918. Serial No. 237,855. 6 Claims. (Cl. 211—8.)

1. In a coin-controlled vending machine, in combination, a general casing, a vertical tray therein having front and rear sections for stacks of confections, goods-ejectors for said sections, one ejector for ejecting the bottom piece of one stack and the other for displacing the bottom piece of the other stack to the bottom of the first mentioned stack, and a manually operative rod for effecting a sale on the introduction of a coin to the machine.

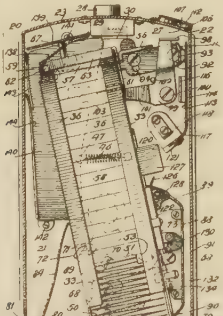
2. In a coin-controlled vending machine, in combination, a general casing, a vertical tray therein having front and

rear sections for stacks of confections, goods-ejectors for said sections, one ejector for ejecting the bottom piece of one stack and the other for displacing the bottom piece of the other stack to the bottom of the first mentioned stack, and a manually operative rod for effecting a sale on the introduction of a coin to the machine, said tray



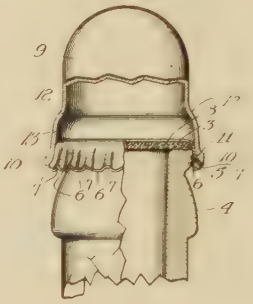
having between the lower ends of said sections hinged members adapted on the ejection of the first bottom piece from the first mentioned stack to be folded up under the other pieces of said stack under the pressure of the displaced piece from the other stack to said first mentioned stack.

1,420,835. COIN-CONTROLLED VENDING MACHINE. HARVEY GILES, Brooklyn, N. Y. Filed Mar. 20, 1920. Serial No. 367,533. 12 Claims. (Cl. 211—8.)



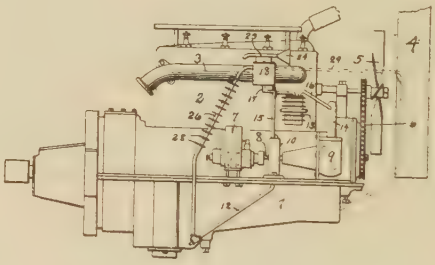
1. In a coin-controlled vending machine having an exterior casing, a coin entrance slot, a discharge for the sold merchandise, means for locking the dispensing structure inoperative in the absence of an introduced coin and coin-controlled mechanism for releasing said structure through the medium of an introduced coin, a dispensing structure comprising a tray for holding a stack of pieces of merchandise mounted for lateral swinging movement within said casing, an exposed handle connected with said tray for operating the same and an ejector against which, on the movement of the tray, a piece of merchandise held thereby is pressed and becomes thereby discharged, said tray also having means to receive and carry the coin against said releasing means.

1,420,836. BOTTLE CAPPER. SIGMUND L. GOLDMAN, Chicago, Ill. Filed Nov. 26, 1919. Serial No. 340,776. 6 Claims. (Cl. 226—84.)



1. A capping implement for the purpose set forth, having an integral hollow dome-shaped portion forming its closed end, the implement presenting a space between its closed end and the top of the cap.

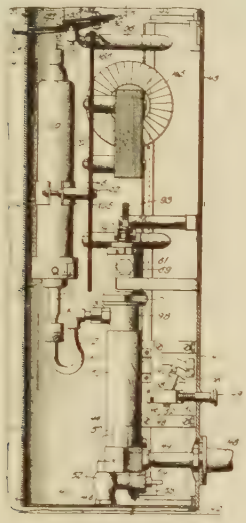
1,420,837. PURIFIER FOR LUBRICATING OILS. EDMUND E. HANS, Detroit, Mich. Filed Sept. 7, 1920. Serial No. 408,684. 13 Claims. (Cl. 123—196.)



8. A purifier for the lubricating oil of an internal combustion engine consisting of a heating chamber having a volatile gas outlet, means for heating said chamber, means to cause lubricant to flow from said engine to said heating chamber, means to regulate the flow of the lubricant into said heating chamber, and means actuated by the temperature of the lubricant for controlling the means regulating the flow of the lubricant into said heating chamber.

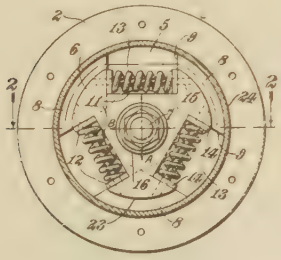
12. A purifier for the lubricating oil of an internal combustion engine consisting of a heating chamber having a volatile gas outlet, means for heating said chamber, a cooler, means to cause lubricant to flow from said engine to said heating chamber and cooler simultaneously and said lubricant passing through the cooler is returned to the engine, and the lubricant passing through the heating chamber and freed of volatile gases is returned to mix with the lubricant flowing from said engine simultaneously to the cooler and heater.

1,420,838. APPARATUS FOR OZONIZING FLUIDS. SIEGFRIED HELD, Chicago, Ill., assignor of one-half to Adolph Kaestner, Chicago, Ill. Filed May 25, 1918. Serial No. 236,520. 11 Claims. (Cl. 210—27.)



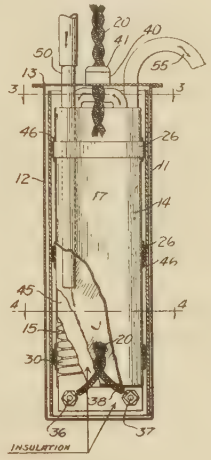
1. In a device of the character described the combination of an ozone generator to provide an ozone supply; a source of liquid supply; conduits leading from both sources of supply to a common receptacle, a casing containing said receptacle and electrical means outside of the casing to control the ozone supply and the liquid supply.

1,420,839. SPRING WHEEL. GEORGE M. HENRIE, St. Louis, Mo., assignor of one-third to John W. Stoverink and one-third to William A. Mueller, both of St. Louis, Mo. Filed Sept. 11, 1920. Serial No. 409,571. 10 Claims. (Cl. 152—44.)



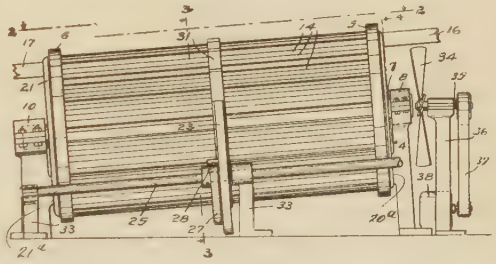
1. In a spring wheel and axle, a hub fixed to the wheel, a movable member fixed to the axle, abutments on said hub, abutments on said member adapted for alinement with said first abutments and yielding means mounted on said member and engaging the abutments thereon, adapted to engage the abutments on said hub, to yieldingly aline said abutments in order to center the axle in said hub.

1,420,840. PORTABLE WATER HEATER. GEORGE W. HEWITT, Bakersfield, Calif. Filed Apr. 16, 1921. Serial No. 461,792. 10 Claims. (Cl. 219—39.)



1. In a liquid heater, the combination of: a flat heating element; a circulating chamber having a flat side; insulation between said element and said side; and means for holding said element against said insulation.

1,420,841. CAN-COOLING DEVICE. ERNEST W. HOPPER, Seattle, Wash., assignor to Hopper Cannery Machinery Co., Seattle, Wash., a Corporation of Washington. Filed Jan. 19, 1920. Serial No. 352,642. 6 Claims. (Cl. 257—87.)

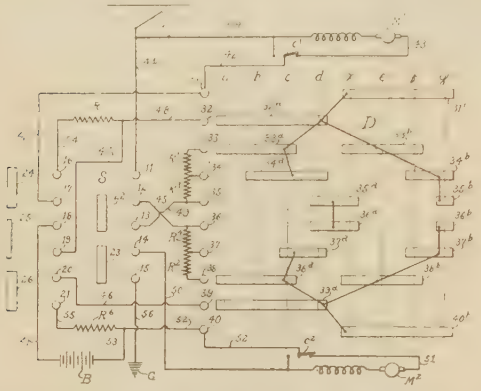


3. In a can cooling device, a can carrying cage comprising a plurality of relatively fixed trackways arranged for rotation about an axis that is inclined with respect to the horizontal and formed of longitudinal corner rods defining lateral open spaces, and means for directing a cooling blast of air over and through said trackways.

1,420,842. ELECTRICAL CONTROLLER. RICHARD B. HUNTER, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed July 19, 1920. Serial No. 397,373. 7 Claims. (Cl. 172—179.)

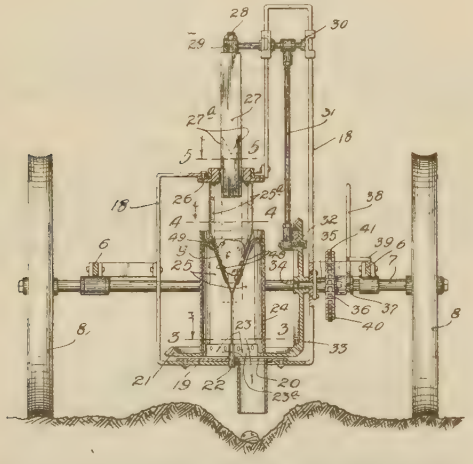
1. The combination with a plurality of sources of electrical energy which differ from one another in electrical condition and a plurality of motors to be supplied jointly from either of said sources, of control means for said motors providing for acceleration including series parallel commutation of the circuits thereof and also pro-

...cing for selection between said sources and for limiting the circuit commutating power thereof to the commuta-



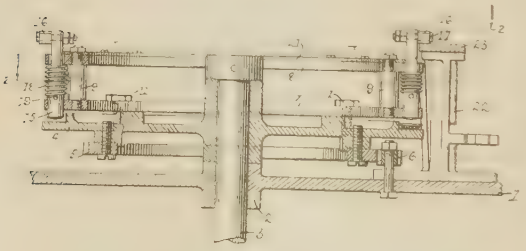
tion of series connections upon selection of certain of said sources.

1,420,843. POTATO CUTTER. PEDER ISRAELSON, Hillman, Minn. Filed Feb. 25, 1922. Serial No. 539,162. 9 Claims. (Cl. 146—7.)



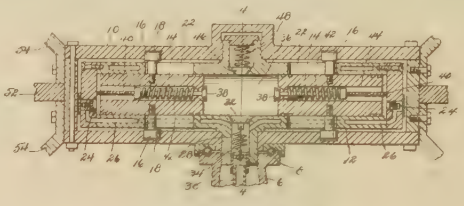
1. A potato cutter comprising a tubular rotatable casing, a plurality of knives in said casing, a plunger operative to force the potatoes against the knives and past the cutting edges thereof, and means for reciprocating said plunger.

1,420,844. PLUNGER DRUM. ARON JOHNSON, Woodhaven, N. Y. Filed Sept. 19, 1919. Serial No. 324,956. 3 Claims. (Cl. 113—80.)



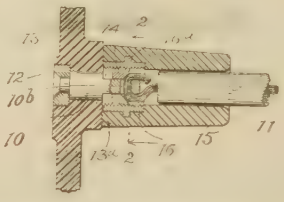
1. A plunger drum comprising a cap supporting plate, a pair of plunger guide rings secured to said plate, plungers in said guide rings and means for adjusting said guide rings and plungers circumferentially with respect to the plate.

1,420,845. APPARATUS FOR COMPRESSING AIR. GEORGE W. JOHNSTON, St. Joseph, Mo. Filed Sept. 29, 1919. Serial No. 327,186. 7 Claims. (Cl. 230—27.)



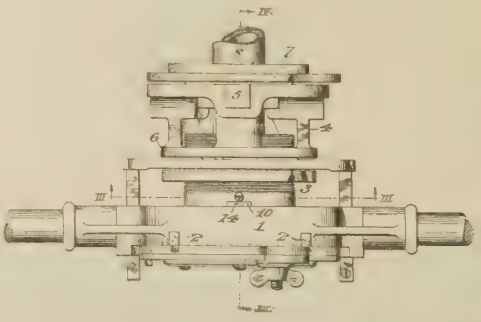
1. An air-compressing apparatus comprising a power wheel composed of a rotating housing, a fixed cylinder within said housing provided with a piston reciprocated by the rotation of said housing, said cylinder providing air chambers at both ends of said piston, means for conducting air to the chamber at one end of said piston, said piston having a valved passage admitting the air under pressure from said last chamber to the chamber at the other end of the piston, and a check valve controlling the passage of air from said last-mentioned chamber.

1,420,846. CONNECTION FOR ELECTRIC CONDUCTORS. ALBERT G. KARKAU, Cleveland, Ohio, assignor to The K-W Ignition Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 12, 1917. Serial No. 180,058. 6 Claims. (Cl. 173—259.)



6. In combination an insulating body, a conductor projecting through said body beyond the same, the projecting portion having a flattened shank and an opening, a second conductor adapted to be looped through said opening, a threaded member slidable along said shank between the opening and said body and held from rotation on the shank, and an insulating sleeve adapted to surround the joint between the conductors and having an internally threaded part which engages said member, said sleeve when turned in one direction into engagement with said body causing said member to travel in the reverse direction into clamping engagement with the portion of the last named conductor extending through said opening.

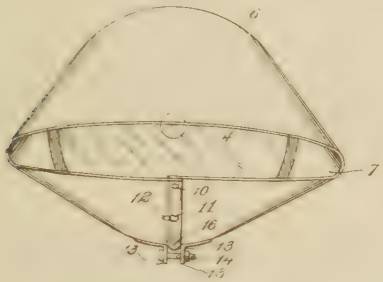
1,420,847. DIESTOCK. JOSEPH KONIGSBERG, New York, N. Y., assignor to Lena Konigsberg, New York, N. Y. Filed Aug. 23, 1920. Serial No. 405,330. 4 Claims. (Cl. 10—127.)



4. The combination with a die stock having a leader screw, of a centering device carried thereby located in

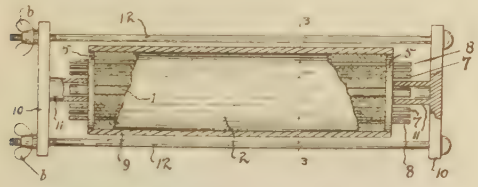
close proximity to and immediately in advance of the cutting chasers, said device comprising a plurality of removable bushings, one of said bushings being removably fixed in said leader screw and the others provided with laterally disposed flanges and recesses arranged to be countersunk in one another and in said removably fixed bushing.

1,420,848. LENS GUARD AND DIMMER. JOHN M. LARSON and JOHN F. SIEVERS, Downey, Idaho. Filed Mar. 10, 1921. Serial No. 451,148. 2 Claims. (Cl. 240—48.4.)



1. In a guard for headlights, a hood formed of a single sheet of material bent into substantially cylindrical shape and having its ends overlapping, the forward end of the hood being pressed to provide an elliptical opening, a rivet pivotally connecting the said overlapped ends at the forward extremity of said hood, ears secured one to each of the ends of the hood member at the rear of the same and disposed back from the overlapped portions of said hood, and a bolt connecting said ears.

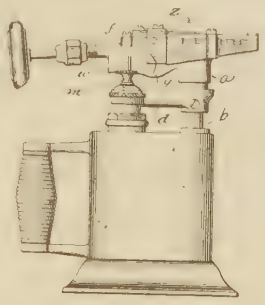
1,420,849. APPARATUS FOR FORMING INKING ROLLERS. LEE LA TOUR and ALTON F. MUNNELL, Omaha, Nebr., assignors to Progress Roller Company, Omaha, Nebr., a Corporation. Filed Jan. 20, 1921. Serial No. 438,802. 2 Claims. (Cl. 18—34.)



1. In resilient-roller forming means, a tubular mold, a pair of adjacently disposed discs in the mold each having a central aperture and having a series of apertures disposed at uniform distances from each other equidistant from the central aperture and having a second series of apertures disposed at uniform distances from each other outwardly of and in radial planes midway between the apertures of the first named series, a shaft engaging in the central apertures and projecting outwardly of the discs, a series of molding-rods engaging in the apertures of the first named series and projecting outwardly of the discs, a second series of molding-rods engaging in the apertures of the second series and projecting outwardly of the discs, and means for moving the discs toward each other.

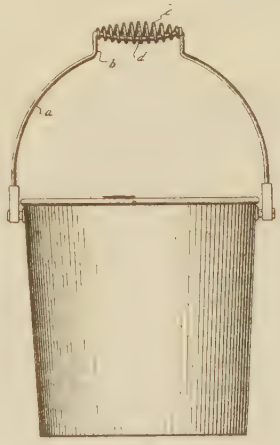
1,420,850. BURNER. FREDERICK L. LINDHORST, Detroit, Mich., assignor to Detroit Torch & Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed May 25, 1921. Serial No. 472,492. 8 Claims. (Cl. 158—38.)

1. In a burner for the purpose specified, the combination of a lower element in the form of a casting including a body forming a valve housing, an oil nozzle, a nipple for receiving the valve stem, and a fan-like fire channel with an upwardly-inclined floor; and an upper element in the



form of a superposed cover removable for the channel, the said casting provided with a feeding vein and passageways leading to the nozzle.

1,420,851. HANDLE. FREDERICK L. LINDHORST, Detroit, Mich., assignor to Detroit Torch & Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 16, 1921. Serial No. 515,499. 5 Claims. (Cl. 220—95.)



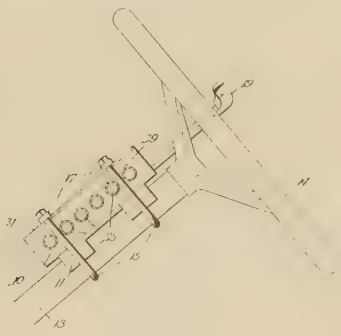
1. A handle, having a plurality of open coils and a load-supporting member passing through the interior of the coils and abutting against the inside of the coils at all times on the side of the handle where the load is applied.

1,420,852. BALL AND ROLLER BEARING. FREDRIK ELLIS LOFSTROM, Elmira, N. Y. Filed Jan. 7, 1921. Serial No. 435,629. 7 Claims. (Cl. 64—37.)

1. A bearing comprising co-axial inner and outer members each of which is provided, in the face directed toward the other member, with a central lubricant-holding groove, with oppositely inclined annular conical ball-races at each side of said groove, and with spaced align-

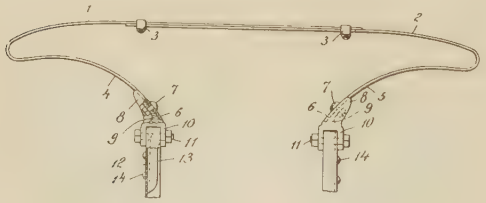
ing cylindrical roller-races adjacent to the ends of the ball-races distant from said groove, connected rings coaxial with said members, located between said cylindrical roller races and out of contact therewith, aligning supports toward each other projected from said rings and having ball-sockets at their adjacent ends, balls engaging said seats and said conical ball races, and rollers journaled in said rings and engaging said cylindrical roller races.

1,420,853. LOCK. EDWARD LONG, Burke, Idaho. Filed Apr. 5, 1921. Serial No. 458,784. 3 Claims. (Cl. 70—129.)



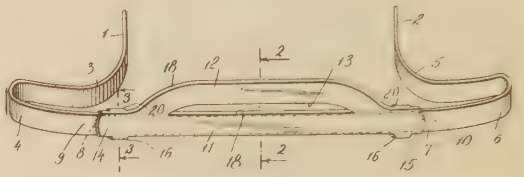
1. An automobile lock embodying a casing, means whereby the casing may be secured to the column of the steering wheel, means removably carried by the casing for engagement with the steering wheel, whereby rotation of the latter may be prevented, means including a plurality of longitudinally aligned rotatable locking elements located within the casing and engageable with the steering wheel engaging means for locking the latter in position, each of said locking elements comprising a relatively small shank mounted for rotation in the casing, a circular disk carried by the inner end of the shank and spaced from the inner wall of the casing, a flat portion formed on the periphery of the disk, a tapered indicia carrying head located upon the opposite end of the shank upon the outside of the casing and a knurled operating knob extending from the head of each of the locking elements, whereby the disks may be rotated to lock or unlock said steering wheel engaging means.

1,420,854. BUFFER ATTACHER. GEORGE ALBERT LYON, Philadelphia, Pa. Filed Sept. 30, 1921, Serial No. 504,397. Renewed May 15, 1922. Serial No. 561,165. 14 Claims. (Cl. 293—55.)



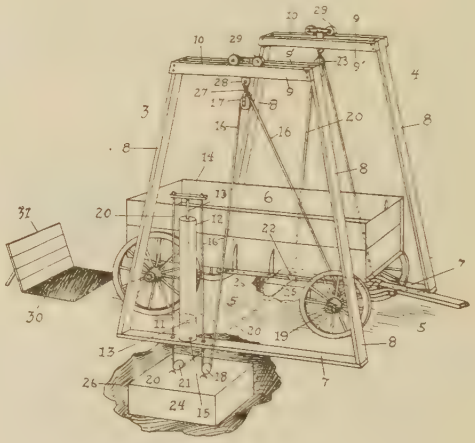
2. The automobile buffer comprising a spring strip resilient buffer front portion and integral end loops and attaching members each having its end bent inwardly and rearwardly to form attacher ends, a retaining recess in said attacher end, frame end members rigidly and permanently secured to the ends of the channel iron frame members of the vehicle and each having an integral outwardly and forwardly flaring supporting bracket formed with an attacher socket to accommodate the attacher end, holes in said bracket and a fastening device in said holes to substantially engage said retaining recess and rigidly and securely hold said attacher end in said socket.

1,420,855. VEHICLE BUFFER DEVICE. GEORGE ALBERT LYON, Philadelphia, Pa. Filed June 10, 1921, Serial No. 476,584. Renewed May 15, 1922. Serial No. 561,166. 14 Claims. (Cl. 293—55.)



1. The automobile buffer formed of spring steel strip and comprising attaching arms, connected end loops and connected adjustably overlapping front strips, and a resilient sheet metal contact and clamping device formed with ribbed vertically separated contact portions and with integral enclosing clamping members cooperating with said front strips substantially as far apart as said attaching members to adjustably and securely clamp said front strips and contact device together.

1,420,856. DUMPING APPARATUS. GEORGE W. MCGLAUFLIN, Sioux City, Iowa. Filed Mar. 18, 1921. Serial No. 453,317. 3 Claims. (Cl. 214—98.)



1. Dumping apparatus of the specified class, comprising a pair of overhead tracks at opposite sides of the vehicle; carriers adapted to travel on the tracks respectively; pulleys suspended from the carriers respectively; ropes running over the pulleys respectively to one end of the vehicle; and a jack adapted to exert tension on the ropes.

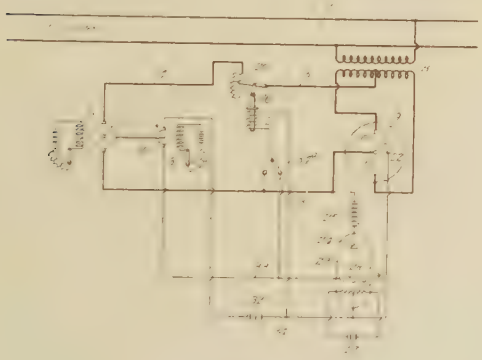
1,420,857. NEEDLE BAR FOR FULL-FASHIONED MACHINES. CHRISTIAN F. MEYER, Reading, Pa., assignor to Textile Machine Works, Wyomissing, Pa., a Corporation of Pennsylvania. Filed Jan. 23, 1920. Serial No. 353,503. 4 Claims. (Cl. 66—28.)

1. In a full fashioned knitting machine having a fixed slur-cock bar and reciprocating sinkers and dividers; a movable needle-carrying bar comprising a rigid base por-

tion and a separately formed needle-clamping portion pivotally mounted upon said base portion so as to be ad-

justable thereon into parallelism while retained in fixed longitudinal position thereon.

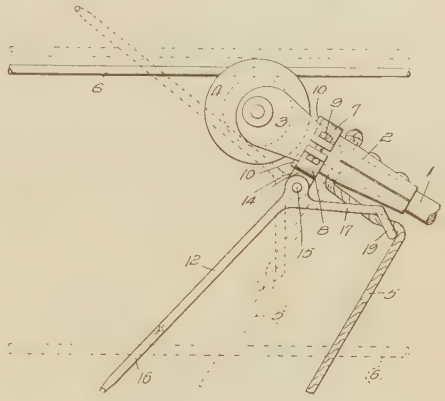
1,420,858. CONTROLLING AND REGULATING APPARATUS AND SYSTEM. FRIEDRICH WILHELM MEYER, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 12, 1920. Serial No. 365,190. 5 Claims. (Cl. 171—119.)



1. A regulator for machines subject to varying load and power conditions, having electroionic regulating means under the influence of the varying conditions and acting to regulate the machine, and electromechanical means also under the influence of the varying conditions and acting upon the machine in cooperation with the electroionic means to regulate and stabilize the operation of the machine.

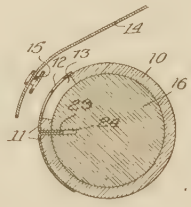
1,420,859. TROLLEY-POLE ADJUSTER. ASMUS PETERSEN, St. Louis, Mo. Filed Sept. 29, 1919. Serial No. 327,132. 2 Claims. (Cl. 191—84.)

1. In means for replacing a trolley-wire upon a trolley-wheel, an angular movable member pivotally connected to a trolley-pole and having an opening to receive the trolley-wheel while replacing a trolley-wire thereon, outwardly diverging arms formed at the rear end of the movable member adapted for engagement with the trolley-wire after the trolley-wheel has left the trolley-wire, the forward end of said angular movable member being provided with a double loop, a trolley-rope fixed at one end to the trolley-pole and passing through the double loop of the movable member to provide a slipping rope connection when the forward end of the movable member is pulled downwardly and rearwardly for raising the forked



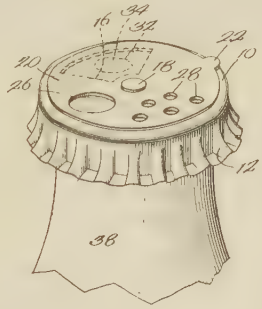
end of the angular movable member into contact with trolley-wire for replacing the trolley-wire upon the trolley-wheel.

1,420,860. PLAYER ROLL. OSCAR PETERSON, Chicago, Ill., assignor to Herbert S. Mills, Chicago, Ill. Filed Apr. 15, 1921. Serial No. 461,712. 6 Claims. (Cl. 242—69.)



1. In combination, a note strip, a separable fastener at the end thereof, a tube of a length equal to the width of said note strip and having a complementary separable fastener on its periphery, a mandril of a size to substantially fill said tube, said tube being adapted to readily slide endwise over said mandril and means carried by said tube for preventing the tube from turning on said mandril.

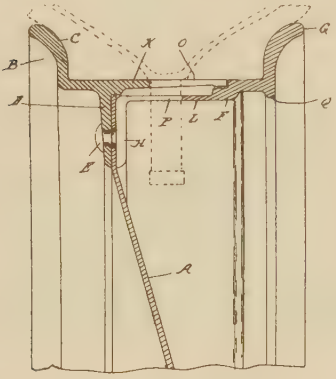
1,420,861. BOTTLE CAP AND SIFTER. ROBERT PORTER and JOHN G. RIES, Chicago, Ill. Filed July 8, 1921. Serial No. 483,204. 2 Claims. (Cl. 221—64.)



1. A bottle cap mechanism comprising a normally unperforated cork plate for closing a bottle neck opening, a metal crown cap over the cork for clamping it to a bottle neck, there being in the top of the cap an opening extending part way around the center of the cap, a plate over the top of the cap pivoted to its center and provided

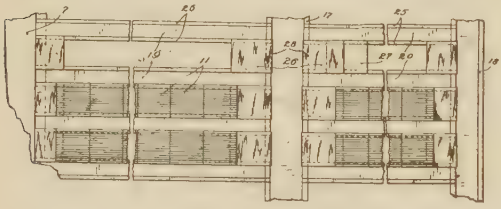
at one side of the center with one or more perforations adapted to be moved, by rotation of the plate into and out of register with the perforation in the cap, and preparations for an opening in the cork plate registering with the perforation in the cap adapted to be easily punched out by the ultimate user of the device, for the purposes set forth.

1,420,862. VEHICLE WHEEL. ALDEN L. PUTNAM, Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del., a Corporation of Delaware. Filed June 27, 1919. Serial No. 307,189. 11 Claims. (Cl. 152—21.)



4. A vehicle wheel, comprising a disk body having its peripheral portion at one side of the central plane of the wheel, and a tire-engaging rim comprising two sections, one of said sections being directly attached to said disk and provided with a cylindrical seat for the tire extending to the opposite side of the central plane of the tire and the other of said sections having a portion telescoping within said seat portion and detachably secured to said disk.

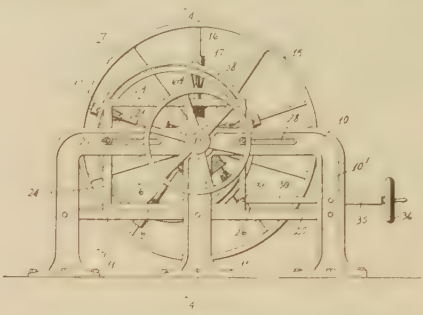
1,420,863. FLOOR-FORMING FORM. ROBERT E. RICHMOND, Minneapolis, Minn., assignor to J. and W. A. Elliott Company, Minneapolis, Minn., a Corporation of Minnesota. Filed May 23, 1921. Serial No. 471,598. 8 Claims. (Cl. 25—131.5.)



1. In a form structure comprising edgewise spaced planks and means for supporting the same, tile supported on the longitudinal edges of the planks and spanning the opening therebetween, said tile terminating short of one end of the planks, and a metal plate supported on the planks and closing the opening therebetween not covered by the tile.

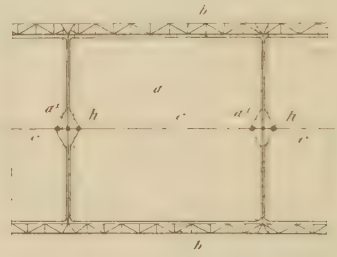
1,420,864. MOTOR. CAMILLO SAVINO, New York, N. Y. Filed July 21, 1921. Serial No. 486,491. 3 Claims. (Cl. 172—126.)

1. A motor of the class described comprising a rotor having a hub, and rods, radiating therefrom, a series of radially extending solenoids fixed to and spaced around said hub and surrounding said rods, cores for said solenoids surrounding and slidable on said rods, weights slidable on said rods and rigidly secured to said cores, an eccentric circular track with which said weights are



engaged, and means comprising said solenoids operating along a portion of said track which approaches the centre of the rotor for shifting said weights inwardly.

1,420,865. AIRSHIP. JOHANN SCHUETTE, Zeesen-Koenigs-Wusterhausen, near Berlin, Germany, assignor, by mesne assignments, to American Investigation Corporation, New York, N. Y., a Corporation of Maryland. Filed Apr. 25, 1919. Serial No. 292,766. 2 Claims. (Cl. 244—3.)



1. In an airship the combination, with a rigid frame work, gas cells and transverse ties, of longitudinal ties, coupled both to the end walls of the gas cells and to the transverse ties of the frame work.

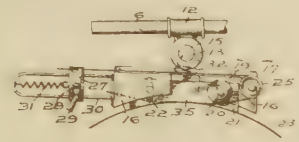
1,420,866. DEVICE FOR RIVETING TUBE JOINTS. JOHANN SCHÜTTE, Zeesen-Koenigs-Wusterhausen, near Berlin, Germany, assignor, by mesne assignments, to American Investigation Corporation, New York, N. Y., a Corporation of Maryland. Filed July 14, 1919. Serial No. 310,873. 10 Claims. (Cl. 78—51.)

1. A device for riveting tube joints, comprising a rivet-holding head insertable in the tube and having a beveled rivet-supporting circumferential groove therein, said groove extending transversely.

1,420,867. GLASS-CYLINDER CUTTER. JOHN R. SCOHY, Okmulgee, Okla. Filed Jan. 19, 1920. Serial No. 352,486. 6 Claims. (Cl. 49—50.)

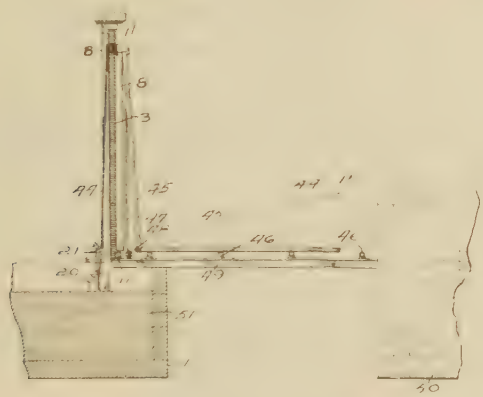
2. In a glass cutter, a pair of electrodes, insulating blocks for supporting the electrodes, a resistance wire for surrounding objects to be cut, means for anchoring one end of the wire and drawing the other end of the

wire so as to press the wire against the electrodes and the object to be cut, and a plate having an edge conforming substantially to the shape of the object and lo-



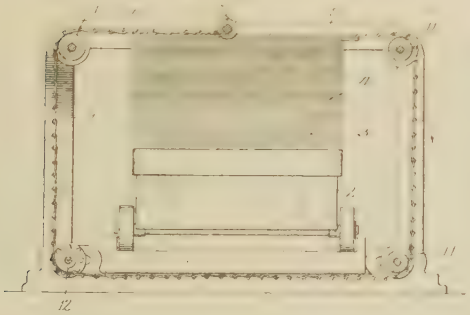
cated intermediate the electrodes and their supporting blocks and overlapping portions of the wire located between the electrodes.

1,490,868. SHEET-GLASS-DRAWING APPARATUS AND METHOD OF DRAWING GLASS. JOHN R. SCOHY, Okmulgee, Okla. Filed July 24, 1920. Serial No. 398,798. 5 Claims. (Cl. 49—17.)



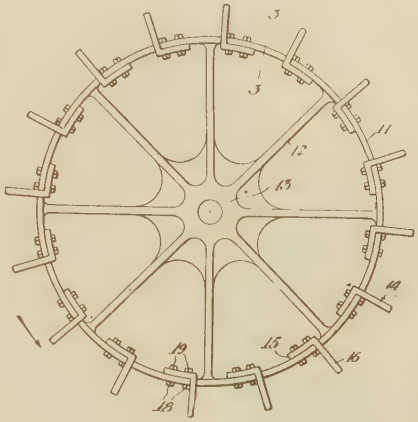
1. The method of drawing sheet glass, which consists in drawing the glass substantially vertical in sheet form and maintaining the edges of the sheet substantially in parallel relation by feeding the glass to the edges through slotted bodies, and turning the glass over a member and shearing the turned portion of the glass at a point near the member and raising the member and the glass to form a succeeding sheet.

1,420,869. PAPER MACHINE. FRANK O. SCOTT, Mittineague, Mass., assignor to Southworth Company, Mittineague, Mass., a Corporation of Massachusetts. Filed July 18, 1921. Serial No. 485,524. 2 Claims. (Cl. 271—75.)



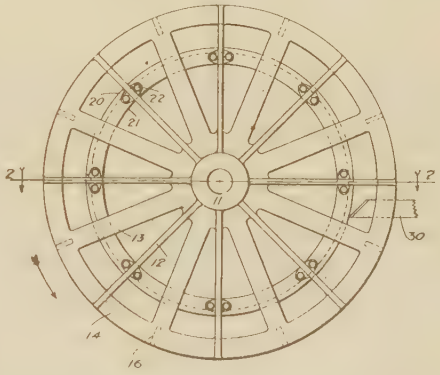
1. In a lay-boy device for paper machines, a frame, plurality of lay-boy rolls, tracks in the frame for the end of the rolls, a rack associated with one track, a gear on each of the rolls cooperating with the track, a pair of chains connecting the corresponding ends of the lay-boy rolls, and pulleys for guiding the chains.

1,420,870. WHEEL FOR TRACTORS. ALFREDO SCOTTI, Whittier, Calif. Filed Apr. 6, 1921. Serial No. 458,896. 1 Claim. (Cl. 301—43.)



In combination with a traction wheel having a rim, a flight member for said wheel comprising an integral member consisting of a flat plate having a blade formed on each end thereof at the edge of said plate and extending outwardly therefrom at each side of the rim of the wheel, and means for securing said plate directly to the rim whereby said plate forms substantial lateral tread surfaces on both sides of the rim.

1,420,871. TRACTION WHEEL. ALFREDO SCOTTI, Whittier, Calif. Filed Jan. 11, 1922. Serial No. 528,447. 5 Claims. (Cl. 301—41.)



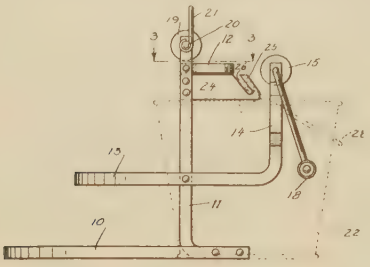
5. A traction wheel comprising a hub; spokes extending radially from said hub; a circular rib connecting the ends of said spokes; a second circular rib spaced apart from the first named rib; a series of webs connecting said ribs; a flat rim secured to said spokes under said webs; a flat plate on each side of said rim extending inwardly toward the hub; said ribs, webs and rim being disposed on one side of said spokes.

1,420,872. MOP WRINGER. LINCOLN V. SHANNON, OSCAR F. SHANNON, and JOHN B. SHANNON, Chicago, Ill. Filed May 24, 1921. Serial No. 472,177. 7 Claims. (Cl. 15—262.)

1. Means rigidly attached to a mop wringer to engage the eyes of the bail of a mop pail adapted to retain said pail in position in said wringer.

7. A mop wringer provided with side standards, means mounted on said standards for lifting said wringer, and

means mounted on said standards having means to engage the eyes of a bail of a pail for steadying the pail on the

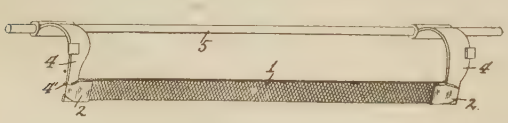


floor and to cooperate with said wringer lifting means for lifting the pail from the floor.

1,420,873. WINDOW PULLEY. JOHN F. SHARPLESS, Jr., Philadelphia, Pa., assignor to The American Pulley Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 10, 1921. Serial No. 468,207. 6 Claims. (Cl. 16—219.)

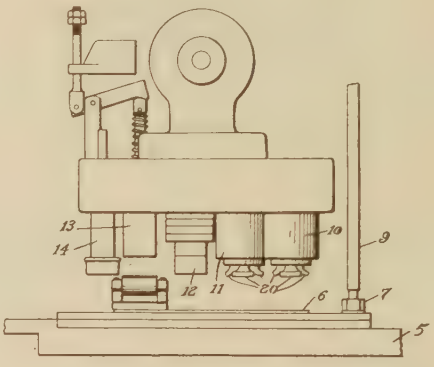
6. A window pulley structure adapted to be set in concrete or the like, and comprising, in combination, a sheave; a substantially semicircular protective casing or housing for the sheave consisting of two die stamped sheet metal sections dished inwardly at the sides and having peripheral flanges abutting along the median plane of the structure, said flanges being deformed to afford anchorage projections; and a tubular axle for the sheave extending between and uniting the dished sides of the casing, and providing a through passage into which concrete may flow, so as, after hardening, to assist in preventing displacement of the structure.

1,420,874. RIBBON ATTACHMENT ESPECIALLY ADAPTED FOR TYPEWRITERS. WILLIAM H. SINCLAIR, Berkeley, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev., a Corporation of Nevada. Filed Oct. 26, 1921. Serial No. 510,411. 3 Claims. (Cl. 197—172.)



1. A typewriter ribbon attachment comprising an end portion of the ribbon, and a clip composed of a body portion secured upon the ribbon end portion, and wing portions projecting laterally from said end portion, said ribbon end portion and said body portion of the clip being folded to form a terminal bight for connection with a carrying arm, and said wing portions being folded upon and secured to the folded exterior of the body portion.

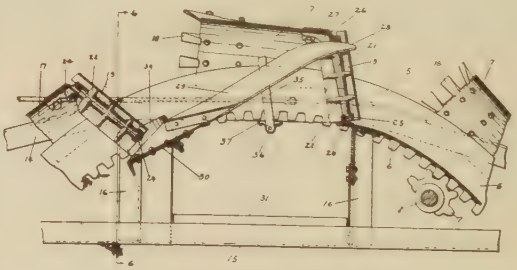
1,420,875. ART OF AND APPARATUS FOR PRODUCING CLOSURES FOR CONTAINING VESSELS. ARTHUR D. SMITH, Portland, Me., assignor to National Seal Company, Inc., New York, N. Y., a Corporation of New York. Filed May 15, 1920. Serial No. 381,583. 12 Claims. (Cl. 153—21.)



3. The method of producing lips in the skirt of a cap or the like having portions of its perimeter extending as spaced lip areas, consisting in collapsing and inserting a pivotally expansible anvil-functioning element internally of the cap skirt, in expanding said element radially against the cap skirt, and in moving a bending element towards said expanded anvil element to bend said lip areas thereover, and in collapsing said anvil element to permit withdrawal thereof from the cap skirt.

8. In bending apparatus of the class described, a stationary stem, a pair of bending jaws intermediately pivoted and slidably mounted along said stem, and means cooperative with said jaws radially to rock said jaws on their pivots in the movement thereof on said stem.

1,420,876. DITCHING MACHINE. JOHN SOMMER, Peoria, Ill. Filed Feb. 6, 1920. Serial No. 356,639. 14 Claims. (Cl. 37—29.)



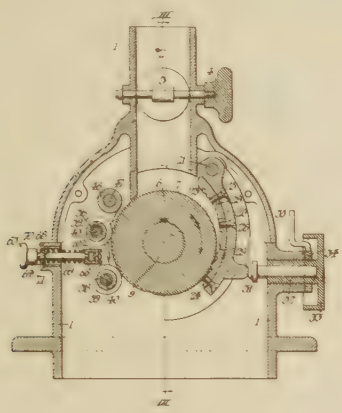
1. In a device of the class described, in combination, a bucket, a pair of gates to close the back end of the bucket, and cleaning means for the bucket which enters between and opens said gates.

11. In a device of the class described, in combination, a wheel having spaced rings, buckets connecting said rings, a pair of knives pivotally supported to be oscillated between and adjacent to said rings, a lever, operating connections between said lever and said knives, and cleaning means normally disposed in an inclined position midway between said knives and adapted to enter said buckets as the wheel is revolved.

1,420,877. COFFEE MILL. WILLIAM SOMMERS and LOUIS FRITZ, Philadelphia, Pa. Filed Apr. 30, 1917. Serial No. 165,313. 7 Claims. (Cl. 83—14.)

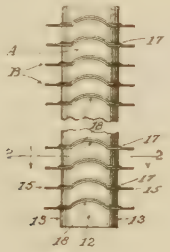
1. In a grinding mill, the combination with a casing; of a milling plate; and means arranged to move said plate,

including a screw in threaded engagement with said casing, and having a hollow head; a jam nut for said screw



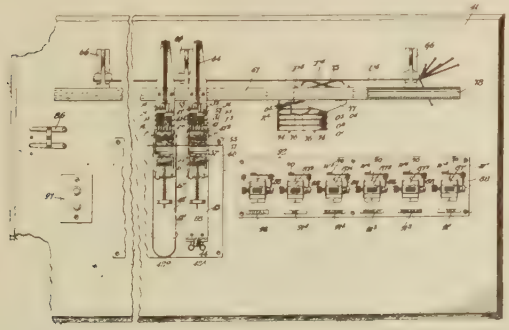
within said head; and a pin, loosely mounted in said screw, in engagement with said plate.

1,420,878. RADIATOR FOR EXPLOSIVE ENGINES. CHARLES F. SPERY, Chicago, Ill. Filed Nov. 7, 1919. Serial No. 336,332. 6 Claims. (Cl. 257—262.)



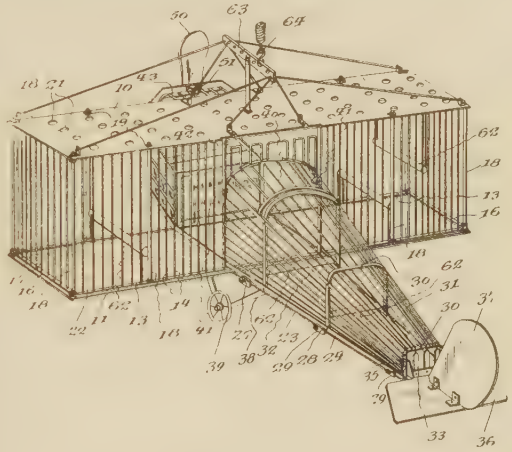
1. A water tube for a radiator core, comprising, a tube having smooth exterior surfaces, and a series of heat conducting fins projecting laterally from said tube in spaced relationship, said fins being curved between their ends to make them expansible and said fins being resilient and adapted to be forced along the tube to their positions and to remain on the tube by the contractive force of the fins.

1,420,879. VOTING APPARATUS. HARRY J. SPROAT, Lansing, Mich., assignor of one-fourth to Archer A. Landon and one-fourth to Henry J. Rente, both of Buffalo, N. Y. Filed May 1, 1917. Serial No. 165,651. 14 Claims. (Cl. 235—50.)



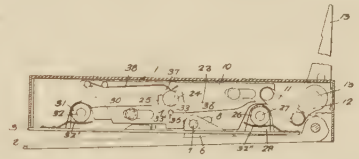
1. In an apparatus of the character described, in combination, a plurality of signal indicating means, electric circuits therefor, means operable by a voter for preparing paths for the current through said circuits, and means operable by a recording officer for completing the path for the current through any one of said circuits independently of the others thereof to operate the signal indicating means associated therewith, substantially as specified.

1,420,880. BIRD CAGE. JOHN STAKUTIS, Chicago, Ill. Filed Jan. 16, 1922. Serial No. 529,786. 3 Claims. (Cl. 119—17.)



1. A bird cage consisting of a longitudinal section and a transverse section intersecting the same and projecting from opposite sides thereof, said sections being intercommunicating, that portion of the longitudinal section which is ahead of the transverse section being a feeding chamber the side walls of which converge forwardly, and said chamber having a front opening, a closure for said opening, and a tray insertable into and removable from the chamber through the front opening, said tray having pivoted side walls adjustable to conform to the convergence of the chamber side walls.

1,420,881. RIBBON FEEDING AND REVERSING MECHANISM. MEREDITH G. STANDLEY and CHARLES E. POE, Cincinnati, Ohio. Filed Sept. 24, 1919. Serial No. 325,966. 8 Claims. (Cl. 101—90.)



1. In a device of the class described, a frame, a pair of spindles journalled in said frame, each having an end of a ribbon secured thereto for rewinding the ribbon from one spindle onto the other, ratchet wheels fixed to said spindles, one to each thereof, a reciprocating slide member, a pawl member fulcrumed upon said slide member shiftable upon its fulcrum to alternate sides of a balancing position, for cooperating with one ratchet wheel and non-cooperating with the opposite ratchet wheel, and a spring adapted to engage said pawl member alternately at opposite sides of its fulcrum for swinging and yieldingly urging said pawl member into engagement with a respective ratchet wheel.

1,420,882. PROCESS OF MAKING FRICTION FACINGS. FREDERICK C. STANLEY, Bridgeport, Conn., assignor to Raybestos Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Sept. 24, 1919, Serial No. 325,915. Renewed Oct. 28, 1921. Serial No. 511,105. 5 Claims. (Cl. 91—70.)

1. A process of making a friction facing consisting in mixing asbestos pulp with the sulphurizing agent, form-

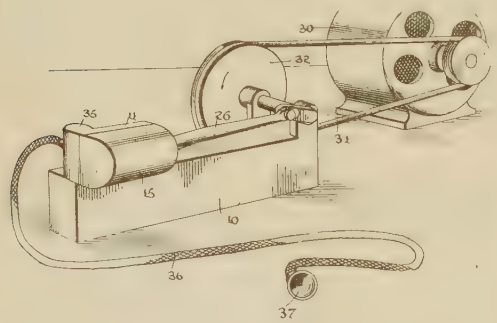
ing unwoven friction facings of desired size and configuration therefrom, subjecting the facings to a saturation in a sulphurizable binder, baking the saturated facing at such a temperature as to cause pronounced action between the sulphur and the binder.

5. The process of making a friction facing consisting in forming friction facings of the desired size from material containing incombustible fiber, subjecting the facing to a saturation in a sulphurizable binder, and baking the saturated facings in the presence of a sulphurizing agent and at such temperature as to cause pronounced action between the sulphur and the binder, and subjecting the facing to a second saturation and a second baking.

1,420,883. PROCESS OF MAKING CLUTCH RINGS FOR MOTOR CARS. FREDERICK C. STANLEY, Bridgeport, Conn., assignor to Raybestos Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Dec. 29, 1920, Serial No. 433,925. Renewed Oct. 28, 1921. Serial No. 511,106. 11 Claims. (Cl. 91—70.)

11. The process of making friction facings consisting in forming an unwoven felted sheet from asbestos fibre, forming facing blanks from the sheet, in saturating the facings in a binder of oxidizable oil contained in a volatile vehicle, and having dissolved therein an oxidizing agent, and in then subjecting the facings to heat treatment to oxidize the binder.

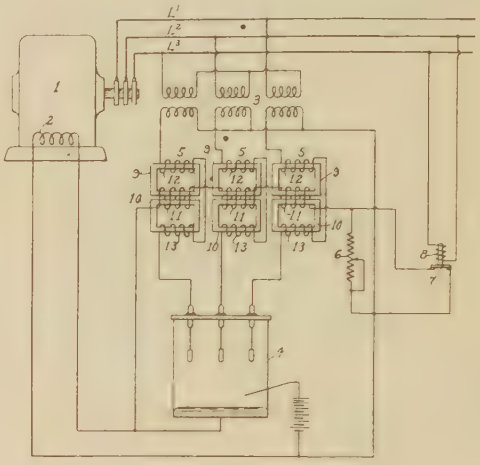
1,420,884. VACUUM VIBRATOR. JOHN GARNETT STEPHENSON and FRED W. NUERWELL, Tulsa, Okla. Filed July 29, 1921. Serial No. 488,453. 7 Claims. (Cl. 128—40.)



1. In an apparatus of the character described, a frame having a smooth flat face and provided with a bearing, an oscillating cylinder having one side enlarged and provided with a smooth flat face engaging the smooth flat face of the frame, a stud fixed to the cylinder and operating in the bearing of the frame, a piston operating in said cylinder, a valve block carried by the frame and having a flat face engaged by the cylinder, said valve block having an intake and an exhaust port therein, said oscillating cylinder having a port therein adapted to successively register with the ports of the cylinder, a pipe connected with the intake port of the valve block and an applicator carried by said pipe.

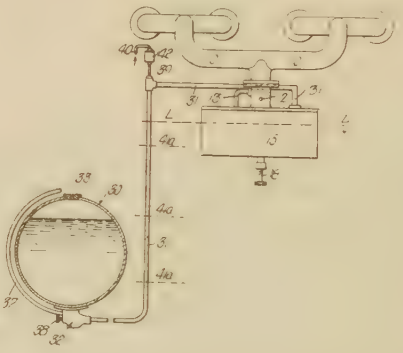
1,420,885. REGULATING MEANS FOR ALTERNATING-CURRENT CIRCUITS. ERWIN R. STOEKLE, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed June 14, 1920. Serial No. 388,781. 6 Claims. (Cl. 171—119.)

1. The combination with an alternating current circuit, a generator to supply electrical energy thereto and a converter to be supplied with alternating current to provide for field excitation of the generator, of means for regulating an electrical condition of said circuit, comprising a reactor having a winding connected in the field circuit of said generator, means for effecting in said reactor a flux for regulating the energy transmitted through said wind-



ing and means responsive to variations in such electrical condition of said circuit for regulating the value of said flux.

1,420,886. CARBURETOR AND FUEL FEED. CHARLES L. STOKES, Los Angeles, Calif. Filed Jan. 23, 1917, Serial No. 143,924. Renewed Jan. 17, 1922. Serial No. 529,999. 6 Claims. (Cl. 158—36.)

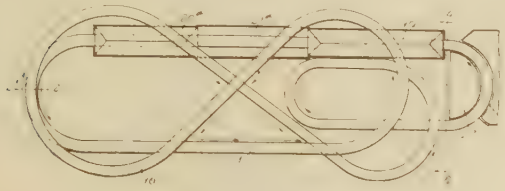


1. In combination, a carburetor having a suction air passage, a liquid fuel chamber open to atmosphere and in direct communication with the air passage to supply it with fuel, a liquid fuel reservoir integrally included within the carburetor and in communication with said chamber to supply it with fuel, said reservoir being located in the same horizontal plane as the chamber so that liquid fuel may stand in hydrostatic balance between the reservoir and chamber, means to prevent passage of liquid from the chamber to the reservoir, a low level main fuel tank, a communication between the tank and reservoir, means to admit atmosphere to said communication, means to intermittently apply to the reservoir the same suction that is applied to the carburetor suction passage, and means to admit atmospheric pressure to the reservoir to the surface of the liquid therein in the intervals between the applications of suction.

1,420,887. AMUSEMENT DEVICE. JOSEPH B. STRAUSS, Chicago, Ill. Filed Nov. 5, 1919. Serial No. 335,899. 5 Claims. (Cl. 104—63.)

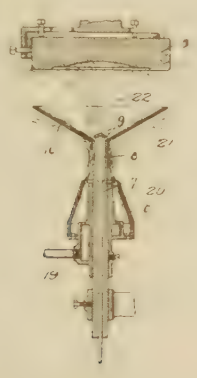
1. A railway comprising two separated longitudinal trusses forming the exterior boundaries of the upper part of the structure, the space between said trusses being

free from longitudinal structural supporting members, cross bracing extending across the space between said longitudinal trusses and connecting them, two pairs of rails carried by said cross bracing between the trusses and par-



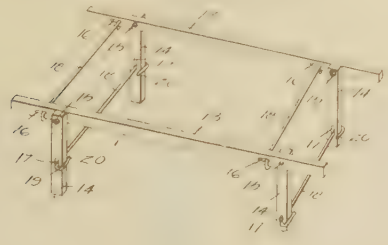
allel thereto, open spaces in said cross bracing above said rails, wheels in said open spaces and running on said rails, and cars located beneath said rails and connected with said wheels.

1,420,888. METHOD OF COATING MOLDS. ARTEEMES D. STRAW, Wauseon, Ohio, assignor, by mesne assignments, to The Hubert A. Myers Company, Toledo, Ohio, a Corporation of Ohio. Filed Aug. 30, 1920. Serial No. 406,908. 12 Claims. (Cl. 22—88.)



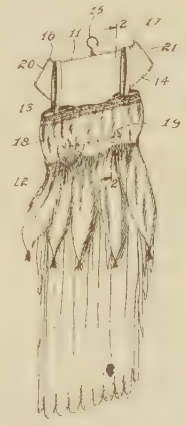
1. The method of treating molds for casting metals, which consists in directing a stream of metallic gas towards the surface of the mold in the presence of oxygen, and depositing the oxide of the metal on the mold.

1,420,889. FRAME FOR AUTOMOBILE BEDS. GEORGE H. STULTZ, Winterset, Iowa. Filed July 16, 1921. Serial No. 485,263. 1 Claim. (Cl. 5—72.)



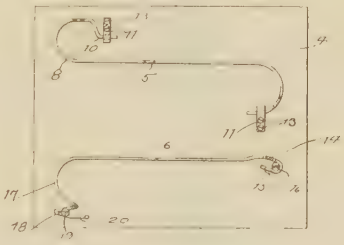
A bed adapted to be used with an automobile including a pair of supporting bars having legs pivoted thereto, means for connecting and holding said pair of supporting bars in position, said means including slots cut in the supporting bars and said legs and arranged lengthwise of the supporting bars and said legs, rods having hook portions thereon adapted to extend through said slots and engage a portion of said bars and said legs for preventing their movement, said supporting bars being designed to be received between the front and back seat of the automobile, said supporting bars being designed to receive the automobile seat cushions, and a suspended foot rest secured to the automobile top frame and adapted to hang over the front seat of the automobile and adjacent to the forward end of the bed for making a continuous and complete bed.

1,420,890. GARMENT HANGER. EUNICE SUTTON and SENA M. WARD, New York, N. Y. Filed July 12, 1921. Serial No. 484,019. 5 Claims. (Cl. 211—13.)



5. A garment hanger comprising a structure provided with a shoulder member and a waist member, the said members being relatively spaced a distance corresponding to the distance between corresponding members of the human body, the shoulder member being provided with means for supporting the straps or yokes of a waist and for preventing lateral movement of the yokes from off the said member, the waist member providing means to which a skirt may be detachably connected to be suspended therefrom, the said waist member being substantially parallel to the said shoulder member, the construction being such that the waist and attached skirt of a dress will be independently supported by said members, the waist being relieved from the weight of the skirt with the said waist hung to assume and retain substantially its natural shape.

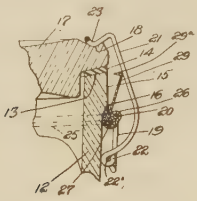
1,420,891. HAT AND UMBRELLA HOLDER. JOHN M. THOMAS, Marion, Iowa. Filed Apr. 30, 1921. Serial No. 465,733. 1 Claim. (Cl. 15—13.)



A holder of the character described comprising a base member, a resilient supporting member having one end portion thereof curved back upon the body portion of said member, and then extended in angular relation to said member and secured to the base member, the opposite end portion of said member being extended in the opposite direction to the first mentioned end portion of said supporting member and provided with a loop, the end portion of the loop being extended beyond the body portion of said supporting member and secured to the base member, a second resilient supporting member having one end portion extended in angular relation to the body portion of said supporting member secured to the bore member adjacent the first mentioned end of the first mentioned sup-

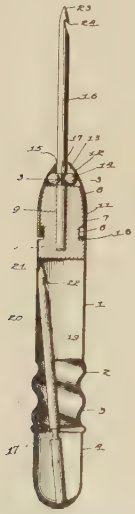
porting member, the opposite end of the second mentioned supporting member being curved to one side and then extended upwardly and secured to the bore member, the remainder of the last mentioned end portion being extended upwardly and formed into a hook, said hook being disposed substantially in alignment with the loop of the first mentioned supporting member.

1,420,892. FRUIT JAR, ETC. CHARLES WILLIAM THOMPSON, Quincy, Mass., assignor of one-half to Edwin J. Tucker, Malden, Mass. Filed Nov. 27, 1920. Serial No. 426,688. 4 Claims. (Cl. 215—86.)



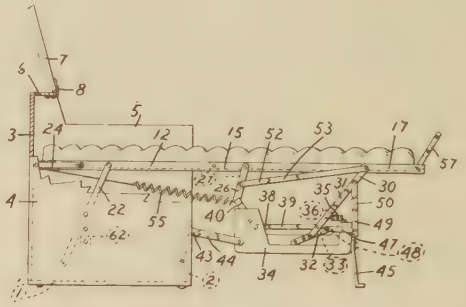
4. In a jar having a closing cap, a cap-confining toggle composed of an inner and an outer member, said inner member being formed as an elongated loop of resilient wire, including a longitudinal portion which forms a terminal hinge pintle, adapted to engage a hinge socket secured to the jar, another longitudinal portion hinged to the outer toggle member, and curved resilient necks connecting said longitudinal portions, whereby the toggle is rendered variable.

1,420,893. CROCHET-NEEDLE HOLDER AND MAGAZINE. PETER TILL, New York, N. Y. Filed May 7, 1921. Serial No. 467,747. 2 Claims. (Cl. 279—81.)



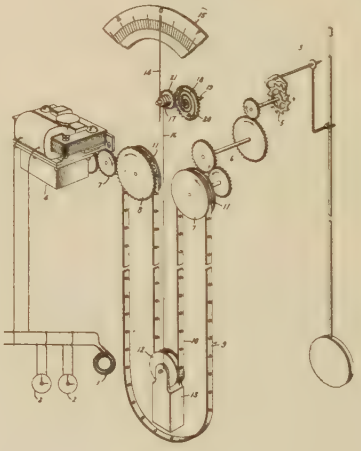
1. A needle holder having a hollow tubular body of sheet metal open at one end, a cap to fit over said open end of the body for retaining needles within the same, an axially socketed plug closing the other end of the tubular body, a clamping member of sheet metal adjustable on said plug and having its outer surface flush with that of said tubular body, and needle clamping means carried by said clamping member.

1,420,894. FOLDING BED. NIGHM I. USIEVICH, San Francisco, Calif. Filed June 7, 1919. Serial No. 302,442. 6 Claims. (Cl. 5—48.)



1. A folding davenport comprising an enclosing frame, a bed frame in three hinged sections, links for connecting one of said sections to the davenport frame, an overturning seat connected to the davenport frame, links connecting the bed sections with the seat for the support of the bed sections, a support for the central portion of the bed extending to the seat when overturned, a spring connected with the end of one of the hinged bed sections and with said support to assist in manipulating the bed and a spring connected with the seat and bed frame links to further assist in manipulating the bed.

1,420,895. TIME-INDICATING APPARATUS. HENRY E. WARREN, Ashland, Mass., assignor to Warren Clock Company, a Corporation of Maine. Filed July 21, 1920. Serial No. 397,920. 5 Claims. (Cl. 58—24.)

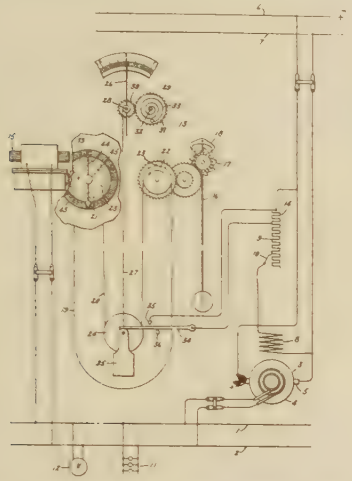


4. A system for the distribution of time comprising synchronously driven clocks located in an alternating current circuit, two wheels, an endless belt passing over said wheels so as to form two loops, a synchronous electric motor located in the circuit and driving one of said wheels, means causing the motion of the other of said wheels to be uniform and means operated by variation in the length of one of the loops.

1,420,896. CONTROL SYSTEM. HENRY E. WARREN, Ashland, Mass., assignor to Warren Clock Company, a Corporation of Maine. Filed Oct. 2, 1920. Serial No. 414,161. 19 Claims. (Cl. 58—24.)

1. In a system for the indication of time by means of secondary clocks driven by self-starting synchronous motors, a standard timepiece, and means for bringing the indications of the secondary clocks into coincidence with that of the standard timepiece after an interruption in

the service, comprising means for increasing the speed of the synchronous motors above their normal rate while

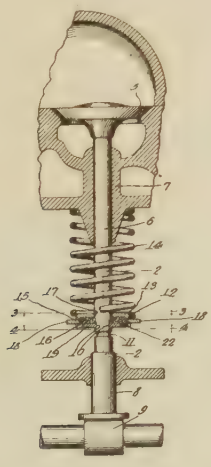


the secondary clocks are slow, said means being rendered active by the noncoincidence of the indications of the secondary clocks and the standard timepiece.

1,420,897. JEWELRY. CARL GEORGE WETZEL, Kokomo, Ind., assignor to Charles E. Hodgen, Kokomo, Ind. Filed Feb. 9, 1921. Serial No. 443,564. 7 Claims. (Cl. 24—128.)

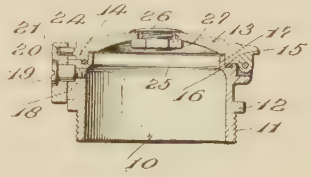
6. A fastening device of the character described, consisting of a male member comprising a head provided with an opening and a bail projecting from said head and formed with an eye, and a female member adapted to receive and cover the head and bail of the male member and to secure the projected eye in position to receive a ring or like means.

1,420,898. VALVE-STEM ATTACHMENT. MARTIN T. WILLEY, Lead, S. Dak. Filed Mar. 8, 1921. Serial No. 450,518. 4 Claims. (Cl. 251—132.)



1. An attachment for a valve stem having engaging means and a spring surrounding the stem, comprising an inner element having an inwardly extending boss for insertion within the spring surrounding the valve stem, said inwardly extending boss having an opening to receive the valve stem, and forming a recess upon the outer side of said inner element, which recess surrounds said opening, a fibrous element arranged within the recess and adapted to receive a lubricant, and an outer element provided with a key-hole opening, the large portion of the key-hole opening being arranged outwardly and adapted for the passage of the valve stem, the inner contracted portion of the key-hole opening being adapted to engage with said engaging means, said outer element having an inwardly extending member arranged near the large portion of the key-hole opening and adapted to engage with the inner member to normally prevent the outer member being shifted laterally in one direction with relation to the inner member.

1,420,899. CLOSURE PLUG. FRANK C. WILLIAMS, Salt Lake City, Utah. Filed Oct. 9, 1920. Serial No. 415,725. 6 Claims. (Cl. 220—55.)

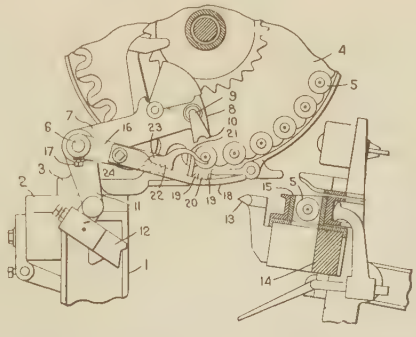


1. A closure plug of the character described comprising a tubular body having its lower end provided with means whereby it may be engaged with the filling opening of a receptacle, a cap hinged to said body and provided with a locking pin projecting from the periphery thereof, and a rotatable member carried by said body and having means for detachably engaging, concealing and protecting said locking pin.

1,420,900. TROPINONE-MONOCARBOXYLIC-ACID ESTERS AND PROCESS OF PREPARING THE SAME. OTTO WOLFES and HORST MAEDER, Darmstadt, Germany. Filed Aug. 26, 1921. Serial No. 495,553. 4 Claims. (Cl. 260—25.)

1. The process of preparing tropinone mono-carboxylic acid esters by heating tropinone dicarboxylic acid esters in aqueous solution of alkali.

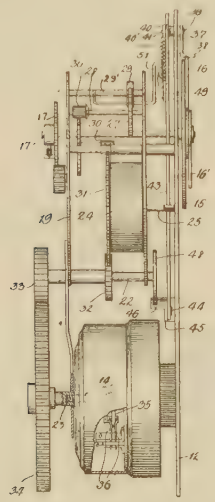
1,420,901. AUTOMATIC FILLING-REPLENISHING LOOM. HENRY W. YOUNGQUIST, Manchester, N. H., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed June 30, 1920. Serial No. 392,986. 5 Claims. (Cl. 139—85.)



1. An an automatic filling replenishing loom comprising a hopper to support a supply of fresh filling carriers and transferring means, a yieldable support for the tip of a filling carrier when in transferring position and a sta-

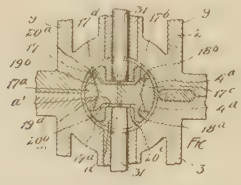
tionary guide located below said tip supporting means having a slot to receive and direct the tip of the filling carrier presented to it by said yielding tip support during the passage of the filling carrier into the shuttle.

1,420,902. ELECTRIC TIME SWITCH. NATHAN ABRAMSON, New York, N. Y. Filed July 30, 1920. Serial No. 400,197. 2 Claims. (Cl. 200—40.)



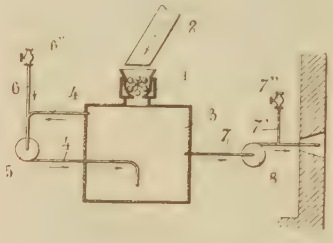
1. In an electric time switch, a clock driven shaft, adjustable hands and a dial on said shaft, a trip member arranged in the path of said hands, a shaft carrying said trip member, a lever pivoted on said trip shaft, a link connected to said lever, a switch mechanism, a vibratory escapement pawl for controlling said switch mechanism, and means on said link for releasing said pawl for vibratory movement on the tripping of said trip member.

1,420,903. METAL MOLD. CLAIR J. AMICK, Cleveland, Ohio, assignor, by mesne assignments, to Aluminum Manufactures, Incorporated, Cleveland, Ohio, a Corporation of Delaware. Filed Nov. 22, 1920. Serial No. 425,788. 10 Claims. (Cl. 22—151.)



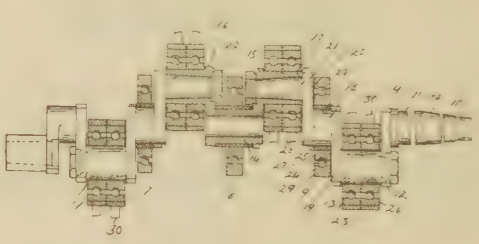
1. In a permanent mold for casting pistons the combination with a permanent mold body having a cavity open at one end and adapted to form the outer head and side walls of a piston casting and having a gate through which molten metal can be introduced into the cavity, of a permanent core supported on the mold body within a surrounding wall thereof and extending into the cavity of the mold to form the inner head and side walls of the piston casting, said core comprising an interior section having wide edge portions and a relatively thin central portion formed by longitudinally extending depressions in opposite sides of the said section, and a plurality of exterior sections surrounding the said interior section, pairs of the exterior sections having longitudinally extending enlarged portions adapted to seat in the said depressions in the interior sections, each pair of exterior sections having a wrist pin boss recess extending inwardly into said enlarged portions thereof whereby a piston having relatively small clearance between the inner ends of the wrist pin bosses may be cast, another pair of the said exterior sections disposed at the end sides of the said interior section being inwardly shiftable upon removal of the said interior section.

1,420,904. PLANT FOR UTILIZING PULVERIZED SOLID FUELS. ANDREA ASSERETO and LORENZO CACCIOPPOLI, Savona, Italy. Filed May 15, 1919. Serial No. 297,384. 3 Claims. (Cl. 110—104.)



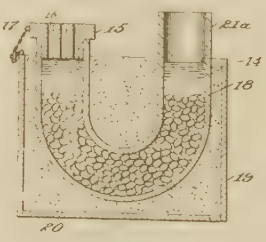
1. In a plant for burning pulverized solid fuel, the combination of a mixing chamber, means above said chamber for feeding pulverized fuel thereto, means for generating a circulation of air and fuel mixture in said chamber, said means being constructed and arranged to continuously exhaust the mixture from said chamber and return the same undiminished thereto, a duct leading directly from said chamber to a burner, and means in said duct to exhaust the mixture of fuel and air from said chamber and to drive it to said burner.

1,420,905. CRANK SHAFT. ROBERT L. BAILEY, Detroit, Mich. Filed Nov. 24, 1919. Serial No. 340,189. 5 Claims. (Cl. 74—38.)



1. In a crank shaft, the combination of a plurality of sections, each comprising a main bearing portion and an arm, and a U-shaped section intermediate said sections and having a main bearing portion and a pair of radially extending arms arranged at different angles from the axis of its main bearing portion.

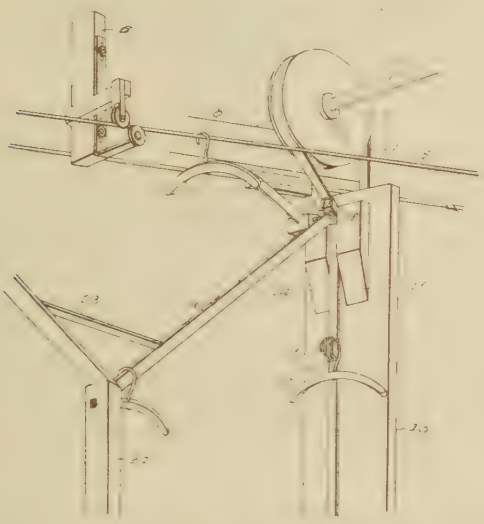
1,420,906. RECEPTACLE. BERNHARD M. BESKOW, Miami, Fla. Filed Aug. 28, 1920. Serial No. 406,614. 2 Claims. (Cl. 99—2.)



1. A storage receptacle adapted to hold eggs, comprising a U-shaped tubular storage chamber both upper ends of which are open for access thereto, said chamber having

imperforate walls throughout its length and being adapted to hold a preserving liquid for the eggs, and a base by which said receptacle may be supported in an upright position.

1,420,907. GARMENT CONVEYER. L B HENRY BIXLER and WILLIAM L. BIXLER, Fresno, Calif. Filed Dec. 10, 1920. Serial No. 429,757. 3 Claims. (Cl. 186—14.)

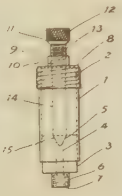


1. In an elevator for clothes hangers, a shaft, a pulley thereon, a conveyer belt operating over the pulley, hanger carrying element attached to the conveyer belt, an arm projecting upwardly and diagonally, a roller mounted on the outer end of the arm adapted to engage the conveyer belt, the said arm extending under the pulley to deflect the travel of the conveyer belt from a straight course whereby the hanger carriers are tilted as they pass the roller.

1,420,908. PREPARATION OF A METALLIC JOINTING COMPOUND. HENRY BURROWS, Poulton-le-Fylde, England. Filed Mar. 20, 1922. Serial No. 545,358. 1 Claim. (Cl. 148—26.)

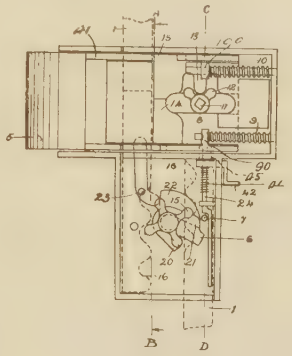
The preparation of a metallic jointing compound consisting in first dissolving gum shellac, gum mastic, and pine resin in methylated spirit, and separately mixing gum copal, gum amine, Chinese wood oil, and linseed oil with mineral naphtha, combining said solutions, and mixing therewith finely powdered metallic aluminum, substantially as herein set forth.

1,420,909. VALVE-LEAK INDICATOR. MARTIN J. CLAUSEN, Seattle, Wash. Filed Nov. 15, 1920. Serial No. 424,138. 2 Claims. (Cl. 73—51.)



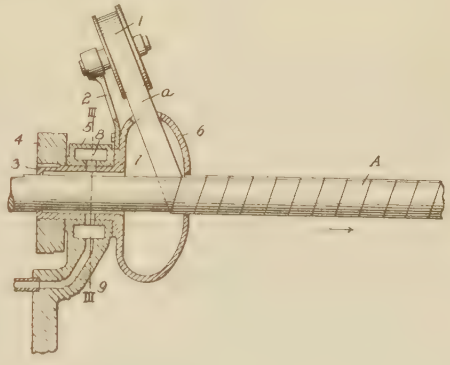
1. A valve leak indicator, comprising a tube, a plug mounted in one end of the tube formed with an opening, a conical seat at the inner end thereof and adapted to fit over a valve stem, a cap on the other end of the tube, and a valve threaded in the cap having a conical end portion adapted to engage the conical seat for retaining fluid in the tube.

1,420,910. LOCKING DEVICE. ARTHUR R. COLLIER, New Southgate, England. Filed May 17, 1920. Serial No. 382,070. 14 Claims. (Cl. 70—29.)



1. A lock operated from a common centre for securing a door at a plurality of places comprising a casing, a latch bolt sliding within said casing, vertical bolts, a handle operating said bolts, a key operated member actuating said latch bolt, and means controlling said latch bolt adapted to be released by the action of the person securing the door to move said member and latch bolt forward automatically when said vertical bolts are moved to their shot position.

1,420,911. APPARATUS FOR BUILDING UP LAMINATE INSULATION AND LIKE STRUCTURES. CHARLES W. DAVIS, Edgeworth, and WILLIAM S. BROWN, Pittsburgh, Pa.; Margaret Walker Davis and P. H. W. Smith executors of said Charles W. Davis, deceased; said Brown and said executors assignors to Standard Underground Cable Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 29, 1920. Serial No. 369,638. 4 Claims. (Cl. 173—244.)

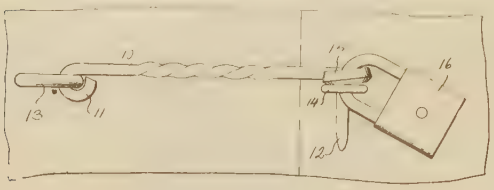


1. Apparatus for winding a strip of material into helical form including a hub rotating on a bearing, an arm borne by said hub, a reel carried on said arm and adapted to carry the strip to be wound, chambers in said hub and in said bearing in constant communication one with the other, and means for maintaining through said chambers a constant supply of liquid at the point of application of a strip unwound from said reel and coiled upon a forming article advancing in the line of axis of said hub, substantially as described.

1,420,912. LATCHING HOOK. DECATUR W. DAVIS, Louisville, Ky. Filed Aug. 10, 1921. Serial No. 491,209. 3 Claims. (Cl. 292—282.)

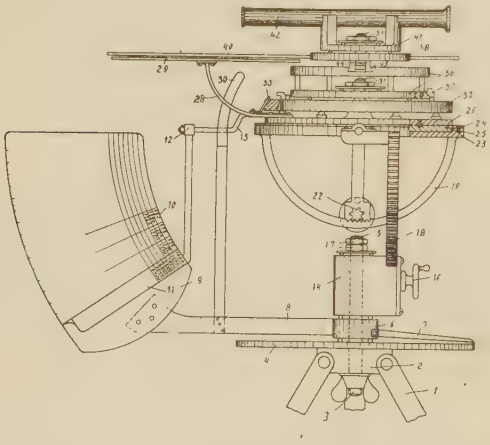
2. A latch of the character described comprising a swingingly mounted member having at one end a downwardly

extending bill and formed to provide a horizontally disposed eye above the bill, a staple through which the bill



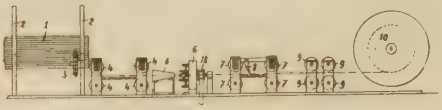
is adapted to be disposed, said eye registering with the staple, and a lock having a shank disposed through the eye and staple.

1,420,913. METHOD OF RANGING A RAPIDLY-MOVING OBJECT AND APPARATUS THEREFOR. FREDERIK HENDRIK DE BRÜINE, Bandoeng, Java, East Indies. Filed May 11, 1920. Serial No. 380,648. 2 Claims. (Cl. 33—69.)



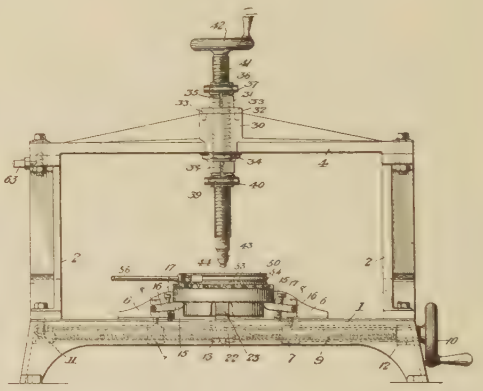
1. Sighting apparatus comprising a base, a table thereon, an element pivotally mounted on the base for horizontal angular movement and having a pointer and an arm extending in opposite directions; a vertical plate carried by the said arm and having correction distance indicia and timing fuse correction numbers thereon; a pivotally mounted member whose pivot is coaxial with that of the said element, a plate, a segment in which said plate is mounted for vertical angular movement, said segment being mounted on said member for vertical angular adjustment to correspondingly incline said plate; a segment at right angles to the first-named segment, adjusting means for the last named segment, connecting the same to the first-named segment to enable said plate to be vertically adjusted in a plane at right angles to the first-named segment; a disc mounted for concentric angular movement on said plate, a radial measuring arm having a scale and carried by said disc; a second disc mounted for concentric angular movement on the first-named disc and having a radial arm; pointers carried by the first-named disc and coacting with the indicia and numbers on the said vertical plate; a rotatable disc for automatically ascertaining the corrections, mounted on the second named disc, an interposed member shiftable eccentrically on the said rotatable disc; a radial scale arm carried by said interposed member, a scale arm slidably mounted on said last-named scale arm and arranged at right angles thereto and shiftable on said measuring arm; a telescope-mounting member mounted for angular movement on said interposed member and having a radial bar adjustably connected to said radial arm, and a telescope on said mounting member and at right angles to said radial bar.

1,420,914. MACHINE FOR THE TRANSFORMATION OF REEDS INTO SLATS OR STRIPS. PAUL DE GUARDIA-CALMÈTES, Perpignan, France. Filed Mar. 24, 1920. Serial No. 368,371. 2 Claims. (Cl. 144—2.)



1. Mechanism for transforming reeds into continuous strips for weaving, which comprises a hopper device in which the reeds lie horizontally, said device having at one side a narrow portion, a separating wheel to singly depress the ends of said reeds, feeding rolls to which said reeds are fed singly by said wheel, a guide funnel for the reeds fed from said rolls, a pair of oppositely positioned peeling knives rotatable substantially parallel to the reeds, means to permit axial movement of said knives and means to revolve the knives about the reed being peeled, a slitting knife to slit the reeds partly through longitudinally as they emerge from the peeling knives, flattening means to flatten the slit reeds, and a reel on to which the reeds are wound after the flattened reeds have been manually secured end to end.

1,420,915. MACHINE FOR FACING OR DRESSING GATE VALVES. FRED A. DEXTER and BAYARD P. DEXTER, Orange, Mass., and JAMES A. STUARD, Harrisburg, Pa.; said Bayard P. Dexter and said James A. Stuard assignors to said Fred A. Dexter. Filed Jan. 9, 1920. Serial No. 350,409. 7 Claims. (Cl. 90—125.)

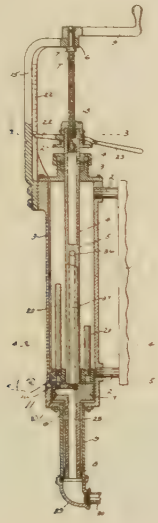


1. A facing machine for gate valves and the like, comprising a base plate, a pair of oppositely disposed clamping jaws having re-entrant work engaging faces slidably mounted thereon, a feed screw having oppositely disposed threads mounted on said base plate, nuts engaging the threaded sections of said feed screw, and a support having an inclined upper face mounted for sliding adjustment transversely of the base plate.

1,420,916. TEMPERATURE REGULATOR. KENNEDY DOUGAN, Minneapolis, Minn. Filed Oct. 25, 1919. Serial No. 333,419. 8 Claims. (Cl. 257—48.)

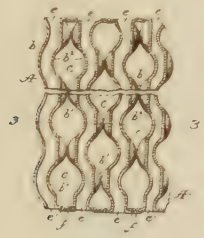
2. In a temperature regulator the combination of a barrel having apertures therein for connection to a heating device, a plurality of pipes of differing lengths posi-

tioned in said barrel, means for bringing any one of said pipes into line with an outlet, and means for raising or



lowering said group of multiple pipes to any desired height with said outlet in an operative position.

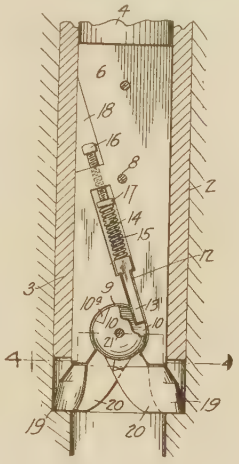
1,420,917. RADIATOR. GEORGE E. ELLIOTT, Baltimore, Md. Filed Nov. 20, 1920. Serial No. 425,417. 1 Claim. (Cl. 257—130.)



A radiator core of the kind described comprising a multiplicity of water tubes of general curvilinear shape, relatively narrow, and similarly provided with corrugations extending transversely thereof, the tubes being arranged side by side with the corrugations of adjoining tubes opposite each other, the corrugations of the tubes near their ends having enlarged portions of greater depth and projecting laterally beyond the central part thereof, said enlarged end portions of the corrugations of adjoining tubes abutting and being secured together providing horizontal air passages between the tubes and also air spaces centrally of the ends of the corrugations connecting the horizontal air passages, and said water tubes being tapered from said enlarged end portions of the corrugations outwardly to their outer ends.

1,420,918. UNDERREAMER. BERNARD F. FEHLMAN, Denver, Colo. Filed June 27, 1921. Serial No. 480,819. 8 Claims. (Cl. 255—76.)

1. An under reamer comprising a stock having a spherical seat, outwardly projecting bits having semi-spherical knuckles conjointly fitting in said seat, and



spring-pressed means to yieldingly maintain the bits in their projecting position.

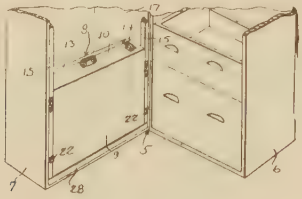
1,420,919. SCRAPER. OLIVER FIKE, Madisonville, Ky. Filed Jan. 28, 1921. Serial No. 440,678. 3 Claims. (Cl. 255—60.)

1. In a device of the class described, a staff; a blade pivoted to the staff; an operating member slidable on the staff and pivoted to the blade; spring means for advancing the operating member; and releasable means for holding the operating member retracted, against the action of the spring means.

1,420,920. TRUNK SHOE BOX. JOSEPH P. GIBSON, Spring Valley, Ill. Filed June 4, 1921. Serial No. 474,963. 3 Claims. (Cl. 190—13.)

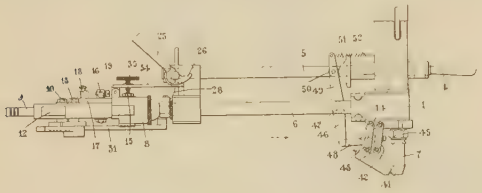
1. In a trunk, a trunk section, holding members carried by the sides of said section, each member having a recess, a container having means adapted to extend into the recesses of said members to prevent movement of the container in certain directions, means carried by the container for engagement with said holding members, the

last mentioned means of the container being spaced from the first mentioned means of the container, and means



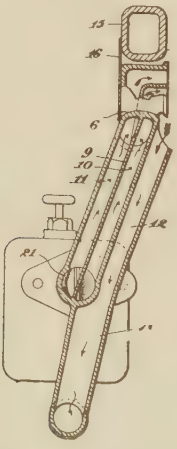
carried by the end portion of said section to resist movement of the container in certain other directions.

1,420,921. CUTTING TORCH. ALFRED GODFREY, London, England. Filed Jan. 26, 1921. Serial No. 440,137. 16 Claims. (Cl. 158—27.4.)



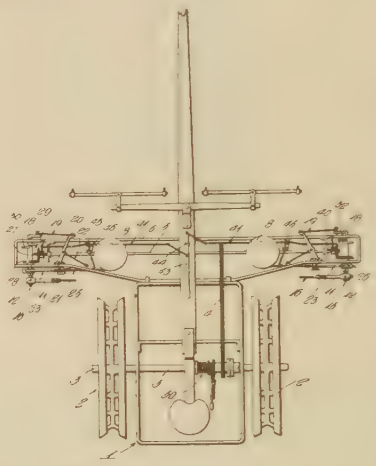
1. A cutting torch comprising a burner nozzle, a gas mixing chamber with means for connecting it to the burner nozzle, pipes for conducting gases to the mixing chamber to produce a heating gas mixture, another pipe communicating with the burner nozzle for conducting the cutting gas to the said nozzle, means for adjusting the area of the passages through the pipes leading to the mixing chamber for the purpose of adjusting the quality of the gas mixture for the heating flame, a plurality of valves for cutting off and turning on the gases at will, mechanism for raising and lowering the burner nozzle, a shaft for operating said mechanism, a cam on said shaft, and link mechanism between the cam and the valves, said cam being so arranged that when the burner nozzle is raised the valves are closed and when the burner nozzle is lowered the valves are opened simultaneously.

1,420,922. INTAKE MANIFOLD FOR INTERNAL-COMBUSTION ENGINES. CARL H. HALLAUER, Los Angeles, Calif. Filed Oct. 4, 1920. Serial No. 414,448. 2 Claims. (Cl. 123—122.)



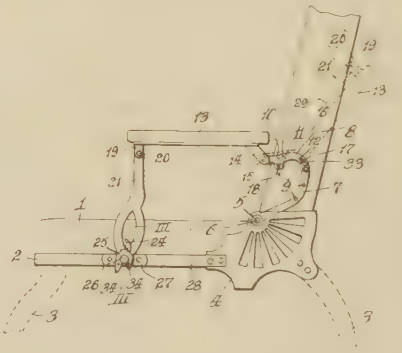
1. In an internal combustion engine, the combination of an exhaust manifold, a carburetor, an intake manifold leading from the carburetor to the engine cylinders arranged adjacent the exhaust manifold, a partition in the intake manifold dividing it into separate passages, an air conduit leading along the walls of the innermost passage opening at its upper end adjacent to the exhaust manifold and at its lower end to the intake of the carburetor, a plate extending between the manifolds for directing the flow of air into the air conduit, and a valve for controlling the flow of vapors through said passages.

1,420,923. CORN PLANTER. CHARLES D. HARNESS, Xenia, and CHARLES D. BRADSHAW, Lucasville, Ohio. Filed Aug. 30, 1920. Serial No. 406,752. 7 Claims. (Cl. 111—25.)



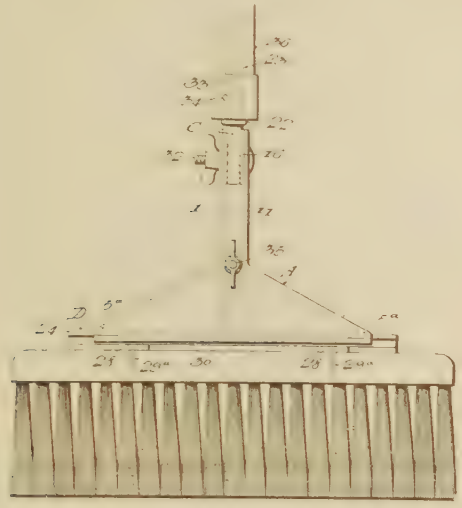
2. The combination with a portable frame, of a shaft extending longitudinally of and mounted rotatably on said frame, a marking arm extending laterally from said shaft, spring means connected to said shaft for rapidly increasing the speed of the latter the moment it has been rotated to a predetermined point by power, an off-center part carried by said shaft, a tubular shaft rotatable upon the aforesaid shaft and having a lateral extension adapted to strike said off-center part and turn said first named shaft to the aforesaid predetermined point, and means for continuously driving said tubular shaft.

1,420,924. DETACHABLE ARM FOR RECLINING CHAIRS. JOHN J. HOGAN, St. Louis, Mo. Filed Sept. 17, 1921. Serial No. 501,351. 2 Claims. (Cl. 155—198.)



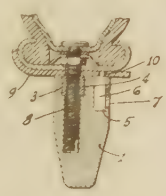
1. In a reclining chair, a back-rest, and a seat portion therefor, an arm-rest, a bracket portion borne by said back-rest provided with an angular recess, a member to which one end of said arm-rest is secured bearing a recess, each of said recesses adapted to engage a respective pin which is borne by said bracket and said member.

1,420,925. HOLDING IMPLEMENT. HOWARD T. INGHRAM, Kansas City, Mo., assignor to Howard T. Inghram, George Zimmerman, and P. G. Owens, joint trustees for U-Want-A Products Company. Filed June 14, 1921. Serial No. 477,535. 8 Claims. (Cl. 15—146.)



1. In an implement of the class described, a pair of coacting jaw members, each including parallel side plates and laterally extended portions having a gripping flange, a handle connecting member adapted for connection to a handle, a single means hingedly connecting said jaw member side plates to said handle connecting member and including means for interlocking one of said jaw members with said handle connecting member and for pivotally connecting the other of said jaw members with the first jaw member and handle connecting member, a spring carried by said jaw members for separating them and a thumb screw connecting said jaw members for forcing them together against the action of said spring.

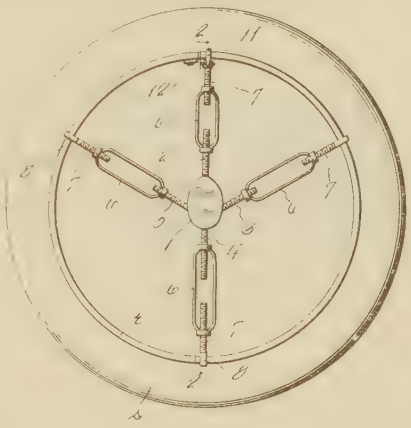
1,420,926. LOCKING DEVICE. MARSHALL A. JOHNSON, Dayton, Wash. Filed Sept. 10, 1921. Serial No. 499,626. 4 Claims. (Cl. 70—122.)



1. The combination with a support for pneumatic tires having a tire valve opening and a bolt receiving opening, and a tire having its valve stem projecting through the tire valve opening of the support, of a casing threaded on the valve stem of the tire and adapted to abut the support, and a lock carried by the casing and having a key operated bolt arranged to engage in the bolt receiving opening of the support and prevent rotation of the casing.

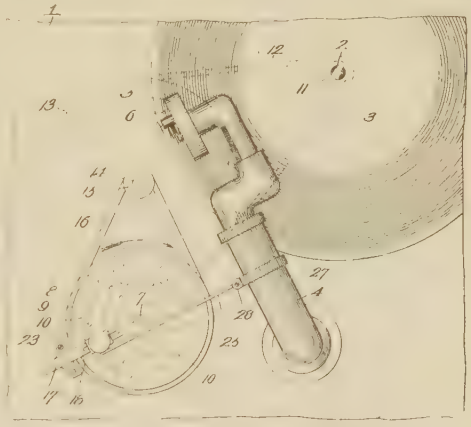
1,420,927. RIM TOOL. STONEWALL JOHNSON, Sullivan, Ill. Filed Sept. 19, 1921. Serial No. 501,753. 1 Claim. (Cl. 157—1.)

A rim tool comprising a central body portion, a pair of screw threaded rods rigidly connected to said central body portion at diametrically opposite points and extending in relative longitudinal alignment, a second pair of screw threaded rods rigidly secured between the aforesaid rods to the central body portion and extending in diverging fashion from the opposite sides thereof, turn-buckles engaging the screw threaded rods, screw threaded shanks engaging the outer extremities of said turn buckles, a



bar swivelly connected between its ends to the rod positioned between the diverging rods, fingers pivoted to the opposite ends of said bar, and right angularly formed arms arranged on the outer extremities of the remaining shanks for the purpose set forth.

1,420,928. PICTURE-DISPLAY ATTACHMENT FOR PHONOGRAPHS. THOMAS D. JONES and JOHN H. BARR, Kansas City, Mo.; Mary Barr executrix of said John H. Barr, deceased. Filed Mar. 8, 1920. Serial No. 364,239. 5 Claims. (Cl. 274—1.)

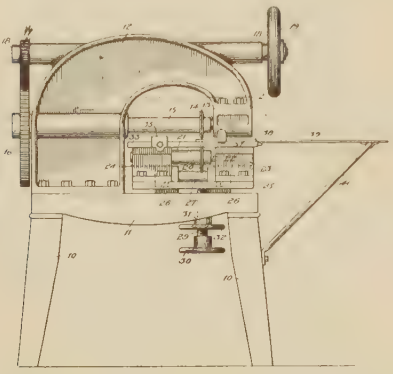


1. The combination of a swinging tone arm of a phonograph, a member rotatable in fixed ratio with respect to the swinging tone arm, a slide actuated to move in the same general direction as and synchonously with the tone arm, inwardly over said rotatable member, a perforated insulating sheet on the rotatable member, a contact device carried by the slide, yielding means for holding the contact device pressed against or away from said sheet, and means for reversing the position of the contact device, actuated by reverse movements of the tone arm.

1,420,929. SHEET-STEEL CUTTER. FRANK M. JOSLIN, Amsterdam, N. Y., assignor to Inman Manufacturing Company, Inc., Amsterdam, N. Y., a Corporation of New York. Filed Mar. 29, 1920. Serial No. 369,486. 4 Claims. (Cl. 164—60.)

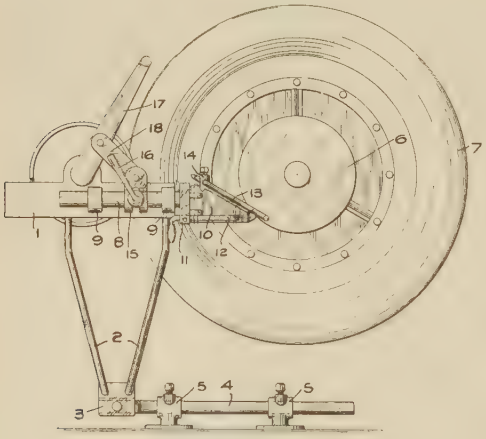
1. In a machine of the class described, in combination, a base, a shaft supporting frame extending upwardly

therefrom, an upper shaft having its ends journaled in said frame, a circular cutter secured to said shaft intermediate its ends, means for rotating said shaft and cutter, a supporting member pivotally connected to said base at one side of a vertical plane passing through said upper shaft, standards secured to said member and ex-



tending upwardly therefrom, a lower shaft mounted on said standards beneath said upper shaft and carrying a cutter for cooperating with said first named cutter, and means adjustably mounted in said base beneath said lower shaft and said member for adjusting the position of said lower shaft relative to the upper shaft.

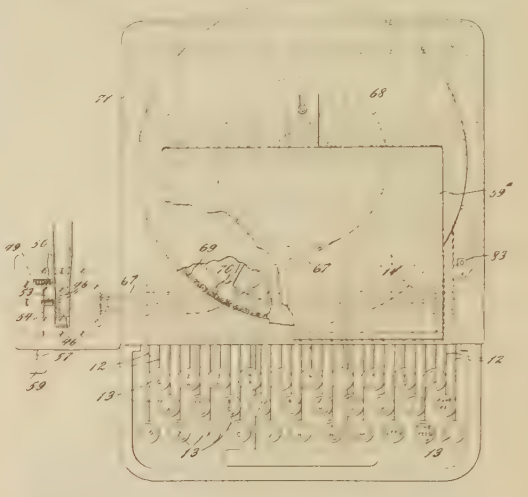
1,420,930. TIRE-PLY TURN-UP AND PRODDER DEVICE. A. DEWEY KILGORE, Akron, Ohio. Filed Mar. 24, 1920. Serial No. 368,343. 26 Claims. (Cl. 154—9.)



15. In a device of the character described, the combination with a rotatable tire core, of means operable to effect separation of portions of the tire from the core, and means to actuate said separating means.

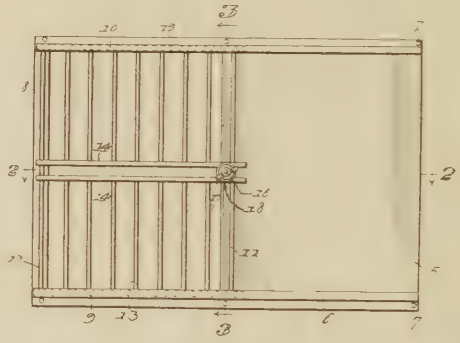
1,420,931. KEYBOARD TAPE PERFORATOR. EDWARD E. KLEINSCHMIDT, Brooklyn, N. Y. Filed July 16, 1919. Serial No. 311,328. 20 Claims. (Cl. 164—113.)

1. In a perforating machine, a plurality of punches for perforating the tape, a single electromagnet and its movable core substantially co-axial with, and arranged for actuating said punches, a reciprocating punch-operating head disposed between said magnet and said punches, a plurality of punch controllers movable into and out of operative registry with said punches, a keyboard selector mechanism constructed and arranged to set said punch



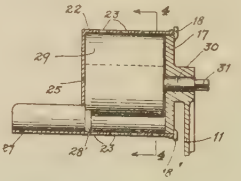
controllers in combinations corresponding to the characters on the keyboard, said head being attached directly to and operable by the armature of said magnet.

1,420,932. GATE. HENRY LANGEBERG, Britton, S. Dak. Filed May 11, 1921. Serial No. 468,496. 2 Claims. (Cl. 39—95.)



1. In a gate construction, a body including guideways, a gate section including a plurality of spaced vertical bars, a plurality of intermediate bars, central spaced horizontal bars, the inner ends of the intermediate bars having connection with the central spaced horizontal bars, and locking means operating between the spaced horizontal bars for locking the gate in various positions of adjustment.

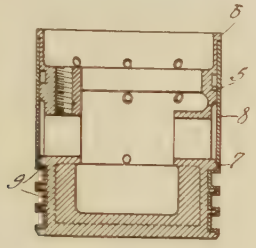
1,420,933. FOOD CHOPPER. PAUL LIEBELT, New York, N. Y. Filed Sept. 23, 1921. Serial No. 502,615. 2 Claims. (Cl. 146—9.)



1. A machine of the class described comprising a disk member having a bracket formed thereto, extension secured to the lower end of the bracket adapted to releasably

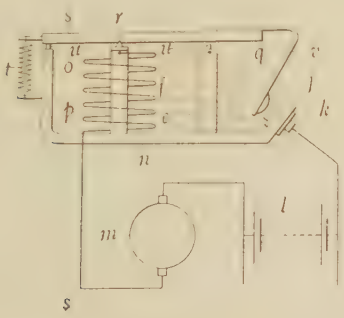
secure the machine to a table, said disk further having diametrically opposed pins and slots formed thereon, a hollow drum, diametrically opposed pin members formed at the open end of the drum and converging toward the center, said drum pins adapted to engage the wall of the disk after passing through the slots in the disk, a spirally formed knife engaging the wall of the drum interiorly and means for rotating the said knife.

1,420,934. PISTON. CYRENIUS LOSCH, Schuylkill Haven, Pa. Filed Mar. 15, 1920. Serial No. 365,799. 1 Claim. (Cl. 74—108.)



A piston comprising a body portion, a removable sleeve positioned on the piston, said body having ring grooves disposed adjacent to one end thereof, groove linings positioned within the groove and having portions thereof overlying portions of the periphery of the body, and said groove linings adapted to contact with rings positioned therein.

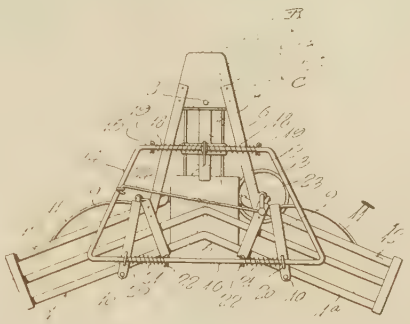
1,420,935. AUTOMATIC ELECTRIC SWITCH. HARRY LUCAS, OLIVER LUCAS, and HAROLD WILLIAM FRANK IRELAND, Birmingham, England. Filed May 26, 1921. Serial No. 472,836. 3 Claims. (Cl. 200—102.)



3. In automatic electric switches, the combination comprising an iron base, an end member produced by bending up one end of the base, a pair of core pieces on the base parallel with each other and the said end member, an armature pivoted on the core adjacent to the said end member, and capable of rocking in either direction relatively to the core, a series winding on said core, a shunt winding on the other core, one end of each winding being electrically connected to its core, a fixed insulated contact on the base, a blade on the armature, a contact carried by said blade for coacting with the fixed contact, and a spring acting on the armature in the direction for separating the contacts, the said contacts being arranged at the end of the switch adjacent to the shunt winding, substantially as described.

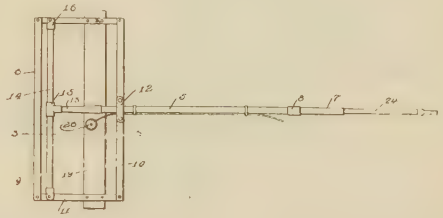
1,420,936. RECEPTACLE-TRANSFERRING DEVICE. EARL WILBER MORTER, Washington Court House, Ohio. Filed Apr. 15, 1921. Serial No. 461,559. 18 Claims. (Cl. 193—44.)

1. A receptacle transferring device comprising a main chute, a pair of branch chutes, means for relatively shifting said main and branch chutes to alternately place the former in operative relation with the latter, and means



synchronized with said chute shifting means for controlling the entrances of said branch chutes.

1,420,937. WINDOW CLEANER. CARL F. MUMAW, Scranton, Pa. Filed Nov. 6, 1920. Serial No. 422,331. 1 Claim. (Cl. 15—127.)



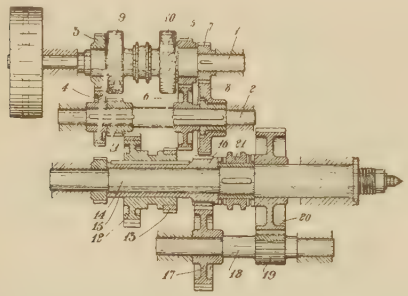
A window cleaning device comprising a head, said head embodying side and end sections, a pipe having its ends secured to the end sections of the head, said pipe having openings, the pipe being disposed adjacent to one of the side members of the head, a handle portion connected to the pipe intermediate its ends, said handle portion being hollow to direct fluid to the pipe, a relatively wide supporting member having connection with the end sections, and a squeegee carried by the supporting member.

1,420,938. REFILLABLE PENCIL HOLDER. WILLIAM JAMES MYATT, Birmingham, England, assignor to W. J. Myatt & Company Limited, Birmingham, England. Filed Aug. 3, 1921. Serial No. 489,554. 2 Claims. (Cl. 120—17.)

2. In refillable pencil holders, the combination of a slotted tubular body, a sleeve movable on the exterior of

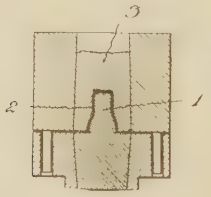
the body, a lead carried by the body, a pair of relatively movable telescopic feed members within the body, a pin passing through the slotted body and connecting one of the said members to the sleeve, a bent wire spring attached to the said member and adapted to exert a frictional grip on the interior of the body, a wire stem connected to the other member and adapted to transmit feeding movements to the lead, a peg on the second member engaging an aperture in the first for limiting the relative movements of the two members, a spiral spring around the second member and pressing in an endwise direction on both members, and a guide for the lead detachably secured to one end of the body, substantially as described.

1,420,939. CHANGE-SPEED WHEEL GEAR FOR LATHES. KARL OLSSON and ANDERS HILMER OLSSON, Lidkoping, Sweden, assignors to Aktiebolaget Lidköpings Mekaniska Verkstad, Lidkoping, Sweden, a Corporation. Filed Sept. 22, 1919. Serial No. 325,420. 3 Claims. (Cl. 74—58.)



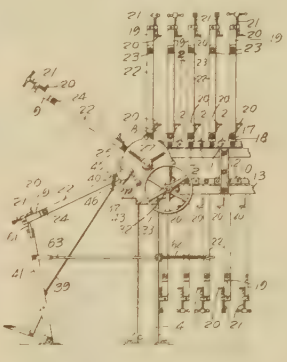
2. A change speed gear comprising a shaft, a plurality of pairs of gears with different ratios of gearing driven from said shaft, a coupling adapted to alternately connect two of said pairs of gears with said shaft, an automatic ratchet gear associated with another pair of said gears to establish a driving connection when the first mentioned gears are disconnected from said shaft, change speed gears adapted to alternately mesh with certain of the first mentioned pairs of gears, a driven shaft, and means for clutching said driven shaft with said change speed gears.

1,420,940. PROCESS OF PRODUCING COMBINED DIES AND COUNTERDIES FOR SWAGING SEAMLESS GOLD CROWNS. EINOSUKE ONO, Hiraka-Gun, Akita-Ken, Japan. Filed Aug. 15, 1921. Serial No. 492,360. 1 Claim. (Cl. 22—190.)



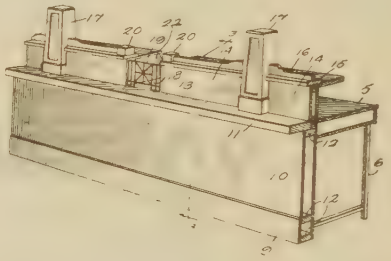
A process of producing a die for use in connection with another die for swaging seamless gold crown, which consists in placing upon the surface of a die a layer of separating material so as to form a covering or coating thereon, of a thickness equal to the thickness of the seamless gold crown to be produced, in pouring a fusible metal so as to cast another die or counter die, characterized in that the finished product provides a space between the said two dies conforming to the thickness of the seamless gold crown to be produced.

1,420,941. CLAMP MACHINE. HARRY B. PALMER, Owosso, Mich., assignor to Albert E. Palmer & Sons, Owosso, Mich., a Copartnership. Filed Mar. 6, 1922. Serial No. 541,368. 9 Claims. (Cl. 144—289.)



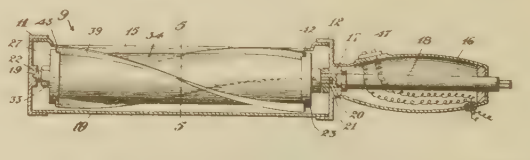
1. In a machine of the kind described, the combination of a pair of endless chains, arms attached to and projecting outward from the chain links, rods connecting alining arms, and clamps mounted side by side upon the rods.

1,420,942. CLEAR-VISION BANK FIXTURE. ASHLEY E. PEYTON, Denison, Tex. Filed July 20, 1920. Serial No. 397,730. 2 Claims. (Cl. 211—11.)



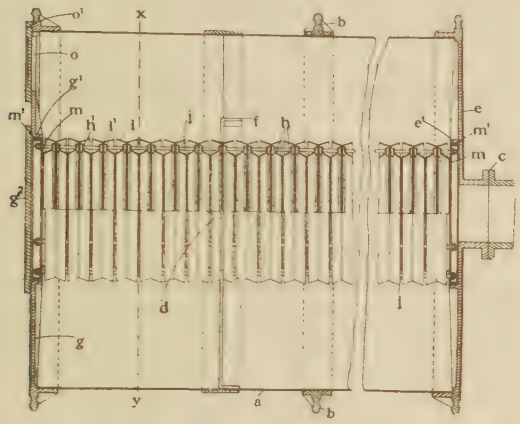
1. A fixture for banks or banking houses, comprising a working counter arranged near the waist of the average customer, a vision obstructing riser extending above the working counter for a substantial distance and terminating near and beneath the head of the average customer for affording a clear vision of the space rearwardly of the fixture, upstanding columns connected in the riser at spaced intervals and serving to reinforce and strengthen the same, and a vision obstructing guard extending upon the inner side of the riser longitudinally thereof, said guard projecting inwardly and laterally over the working counter for a substantial distance, and being spaced therefrom, the riser having a height and the guard a width whereby the working counter is substantially completely covered from view from the outer side of the riser.

1.420.943. ROTARY RAZOR. JOSEPH HOWARD PHILP, Los Angeles, Calif. Filed Sept. 10, 1920. Serial No. 409,347. 6 Claims. (Cl. 30—12.)



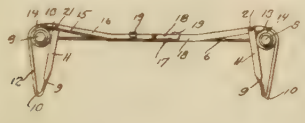
1. In a rotary razor, a casing formed with a longitudinal slot, a rotary shaft in said casing, a series of filler blocks encircling said shaft, a series of razor blades engaged between said filler blocks having their edges projecting beyond the outer faces of the latter and adapted on rotation of the shaft to pass across the opening in the housing.

1,420,944. APPARATUS FOR TREATING SUBSTANCES IN A FINELY-DIVIDED CONDITION. PHILIP POORE, London, England. Filed Apr. 13, 1920. Serial No. 373,602. 4 Claims. (Cl. 202—25.)



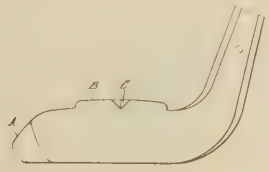
1. An apparatus of the kind described comprising a casing mounted for rotary movement and having a flue extending longitudinally thereof with its axis coinciding with the axis of the flue, pockets extending between the flue and the casing and having communication with both to permit of the free passage therebetween of gases, said pockets provided with inclined walls adapted to direct solid matter into the casing and from entering the flue, substantially as described.

1,420,945. STRETCHER. THOMAS ROBSON, Windber, Pa. Filed May 23, 1921. Serial No. 471,668. 4 Claims. (Cl. 5—70.)



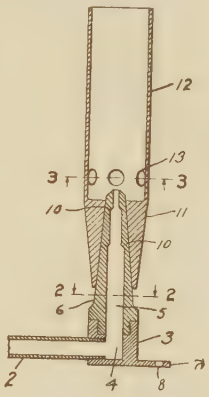
1. A stretcher of the character described comprising handle members, means for connecting said handle members comprising supporting legs, each leg having a sleeve disposed between the side portions of the legs for the reception of a stretcher handle member, and an extension carried by each leg and pivoted to the extension of the opposite leg in overlapping relation for connecting said handle members to each other.

1,420,946. GOLF CLUB. CHARLES HERBERT RODWELL, London Bridge, England. Filed Feb. 24, 1921. Serial No. 447,408. 4 Claims. (Cl. 46—4.)



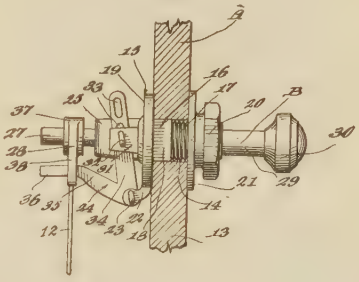
1. In a golf club of the kind known as a putter, a head having an approximately flat striking face and a shank extending upwardly from one end of said striking face, said head being provided on its upper surface with a semicircular raised projection, the diameter of which projection is formed by the upper straight edge of said striking face, and a depression centrally located in relation to the arc of said projection extending from said projection into said face.

1,420,947. BUNSEN ATTACHMENT FOR BLOWPIPES. CLARENCE B. ROGERS, Seattle, Wash., assignor to M. F. Patterson Dental Supply Company, St. Paul, Minn., a Corporation of Illinois. Filed July 31, 1919. Serial No. 314,572. 2 Claims. (Cl. 158—111.)



1. A blow pipe tip and a base therefor having means for connection with a gas supply and provided with a surface for supporting the tip in an upright position, and said base having means for hanging it and the tip on a suitable support, said means including openings formed in the edge of said base upon opposite sides of said tip and a hold in said base intermediate said openings.

1,420,948. PUSH-BUTTON TRIP LEVER FOR LOW CLOSET TANKS. WHITMAN C. RATHBUN, New Rockford, N. Dak. Filed Aug. 3, 1920. Serial No. 401,046. 3 Claims. (Cl. 4—5.)

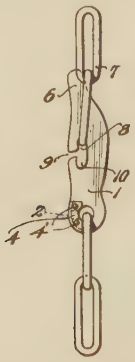


1. In combination, a flush tank, a flush valve therein, a trip lever including a hub arranged intermediate its ends, a casting including a sleeve, a sliding button carried by the sleeve, means connecting the sleeve with the flush tank, right angularly disposed arms carried by the casting, a horizontally disposed pivot pin carried by one of the arms forming a pivot for the hub of the trip lever, a bell crank pivoted at its angle to the other arm, means operatively connecting one arm of the bell crank to the push button, and means operatively connecting the other arm of the bell crank to the trip lever.

1,420,949. TIRE-CHAIN HOOK. JOHN L. SCHINDLER, Mount Angel, Oreg. Filed May 23, 1921. Serial No. 471,667. 4 Claims (Cl. 24—241.)

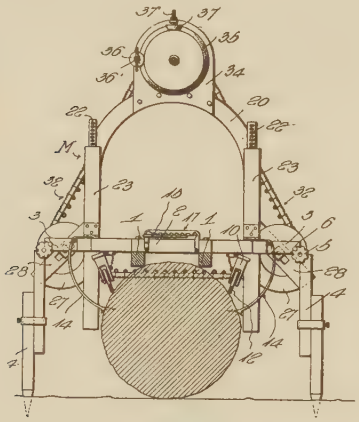
2. A hook device comprising a flat elongated body member provided intermediate its ends with a substantially T-slot opening at one edge of said member, said slot being adapted to receive and retain one end of a chain link passed over one end portion of said member, said end portion being constructed to act as a stop for cooperation with

the other end of the link for limiting movement of said link in one direction, said member being provided at its opposite



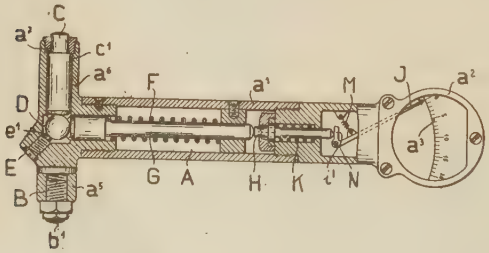
end with an integral hook, and means for closing the mouth of said hook and adapted to be held by displaceable fastenings.

1,420,950. WOOD-SAWING MACHINE. JAMES EDWIN ELDER, Highwood, Mont. Filed Jan. 17, 1921. Serial No. 437,863. 7 Claims. (Cl. 143—19.)



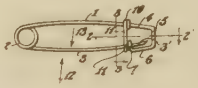
1. A wood working machine having a horizontal base frame adapted to normally rest on a log, normally idle log-engaging wheels adapted to rest on a log and support said frame above the log while moving it along the same, and means for bringing said wheels into or out of contact with the log.

1,420,951. HOLE GAUGE. MAX BARTHOLDY, Karlskoga, Sweden, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Nov. 6, 1920. Serial No. 422,374. 2 Claims. (Cl. 33—178.)



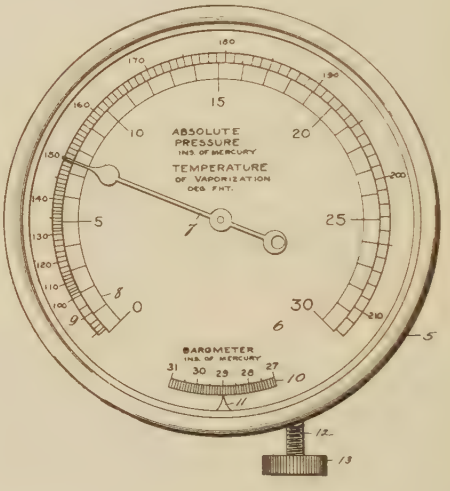
1. A hole gauge having a displaceable body, a member displaceable in a direction forming an angle with the direction of movement of said body, an indicating device, said displaceable member being connected to said indicating device, a member provided with a face, inclined to the direction of movement of said displaceable member, said body being movable on said face, the movement of said body producing movement of said displaceable member.

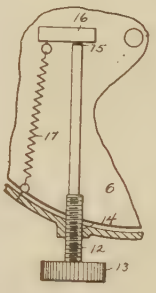
1,420,952. SAFETY PIN. SAMUEL E. BENTLEY, Springfield, Mass. Filed July 20, 1921. Serial No. 486,044. 7 Claims. (Cl. 24—161.)



1. A safety pin construction comprising main and pin bar parts having a coiled spring connection, a plurality of hooks to receive and partially surrounding the bar and being so constructed and arranged to prevent either an inward or outward movement of the bar when engaged by the said hooks.

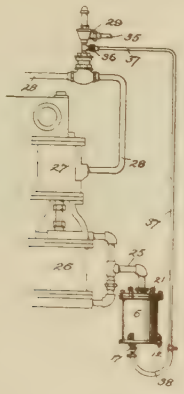
1,420,953. COMPENSATING GAUGE. CHARLES HAROLD BERRY, Detroit, Mich. Filed Apr. 24, 1920. Serial No. 376,365. 7 Claims. (Cl. 73—31.)





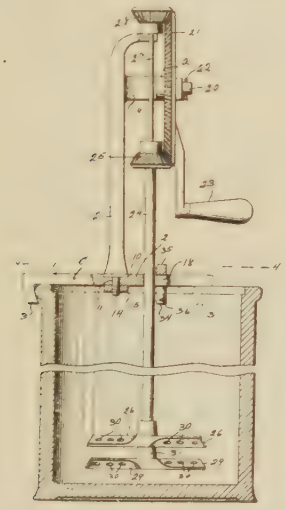
1. A gauge comprising a rotatable dial graduated in terms of absolute pressure, an indicator operative thereover, means for moving the dial with respect to the indicator and a barometric scale for determining the degree of movement of the dial, said barometric scale bearing such relation to the pressure scale of the dial as to cause the movement of the dial in accordance with the barometric scale, to compensate for variations of atmospheric pressure.

1,420,954. DUST COLLECTOR. HENRY F. BICKEL, Plainfield, N. J., and BLYTHE J. MINNIER, Watertown, N. Y. Filed Oct. 28, 1921. Serial No. 511,008. 5 Claims. (Cl. 183—76.)



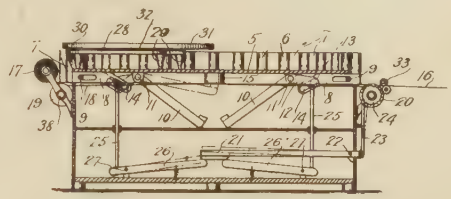
1. The combination of an air pump; a dust-collecting device connected with the intake of said pump; a pump governor connected with said pump to start and stop the same and having a vent which discharges air as an incident to the governing function; and a connection between said vent and the collector serving to discharge the vented air within the collector to perform a cleaning function.

1,420,955. DASHER MECHANISM FOR CHURNS. WALTER BIRD, Morrillton, Ark. Filed July 30, 1921. Serial No. 488,601. 2 Claims. (Cl. 74—7.)



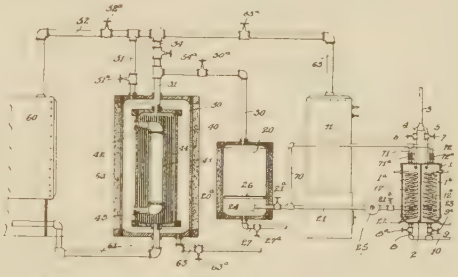
1. A mechanism of the class described comprising a supporting member, a post mounted thereon provided with a laterally extending arm, said arm having a recess, said member being provided with a recess, a bracket carried by the post inwardly of the arm, an operating member supported by the bracket, a tubular shaft seating within the recess of the member and in driven connection with the operating member, a shaft disposed through the tubular shaft, the upper end portion of the shaft seating within the recess of the arm, an operating member carried by said second shaft and resting upon the arm, said operating member being in driven connection with the first named operating member, said second shaft extending below the tubular shaft, and a holding member carried by the first named member and adapted to close the recess in said first named member for holding the shafts therein.

1,420,956. SPIRITUALISTIC COMMUNICATION APPARATUS. SUNKER ABAJI BISEY, New York, N. Y. Filed Mar. 22, 1920. Serial No. 367,762. 14 Claims. (Cl. 46—41.)



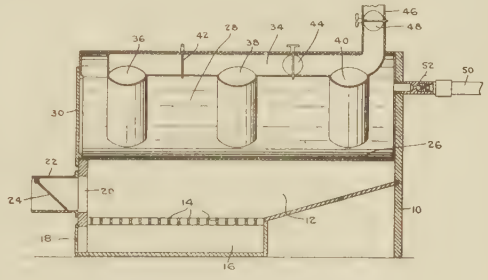
1. In apparatus of the character described, a table provided with pockets in the peripheral portion thereof each having a definite but normally hidden significance for the transmission of intelligible communications and a planchette movable unrestrainedly over said table and into positive engagement with said pockets and adapted to reveal the significance thereof.

1,420,957. OIL-BURNING APPARATUS. JOHN A. BISHOP, Clearwater, Fla. Filed Sept. 9, 1920. Serial No. 409,220. 14 Claims. (Cl. 158—53.)



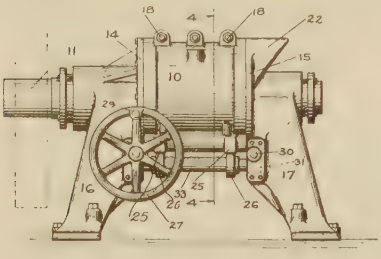
1. In apparatus of the class described, an air tight casing, a retort within said casing spaced from the wall thereof, a heating drum within said retort, said heating drum being in communication with the space within said casing around said retort, a pipe communicating with said retort adapted to admit oil thereinto, a gas pipe leading therefrom, and means adapted to admit heated aeriform fluid under pressure into said casing.

1,420,958. RETORT FURNACE. THOMAS R. BLANCHARD and EDWARD B. KENEFIC, Minneapolis, Minn. Filed Nov. 17, 1921. Serial No. 515,822. 3 Claims. (Cl. 203—6.)



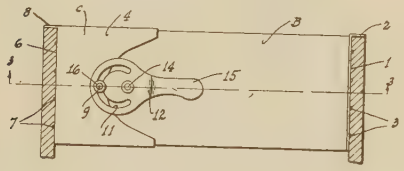
3. A retort furnace comprising a retort, a heat supplying chamber under said retort, a horizontal flue extending at the upper side of said retort, pairs of upwardly convergent flues which extend through the body of said retort and open into said horizontal flue at different positions along the length thereof, and dampers in said horizontal flue located between the openings of successive pairs of flues.

1,420,959. MACHINE FOR TREATING RUBBER OR OTHER PLASTIC MATERIAL. DAVID R. BOWEN and CARL F. SCHNUCK, Ansonia, Conn., assignor to Farrel Foundry and Machine Company, Ansonia, Conn., a Corporation of Connecticut. Filed July 11, 1919. Serial No. 310,020. 46 Claims. (Cl. 18—2.)



1. In a machine of the character described, a working chamber, a rotor for working the material back and forth in said chamber, said chamber having provision at the end for the introduction of the material, and means for assisting the movement of the material from the end of the chamber toward the intermediate portion thereof.

1,420,960. DIVISION BOARD FOR BEEHIVES. FRED D. BOWERS, Sugargrove, Pa. Filed Aug. 27, 1921. Serial No. 495,931. 6 Claims. (Cl. 6—2.)



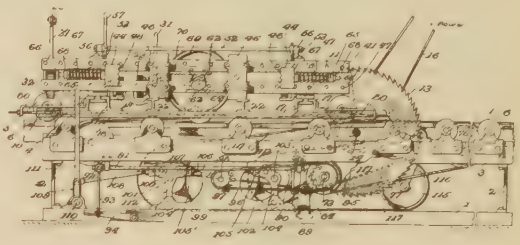
1. A division board for a bee hive comprising a body member having an outstanding supporting lug at the upper portion of an end thereof and a cap slidably mounted upon the opposite end portion of the body member, said cap being provided with an outstanding supporting lug at the upper portion of the outer end thereof.

2. As an article of manufacture, a division board for a bee hive comprising two members, one of said members being an elongated body member and the second member constituting a cap snugly and slidably mounted upon an end portion of the first named member, the outer ends of both of the members at their upper portions being provided with outwardly directed supporting lugs, and co-acting means carried by both of the members for bodily shifting the members one with respect to the other, the outer ends of the members being provided with penetrating means.

6. A division board for a bee hive comprising a body member and a cap slidably mounted upon one end portion of the body member, the outer ends of the body member and cap being provided with penetrating means.

1,420,961. SAWMILL CARRIAGE. MICHAEL E. BRADY, Traverse City, Mich. Filed Oct. 8, 1920. Serial No. 415,582. 17 Claims. (Cl. 143—117.)

1. In a sawmill, the combination of a carriage, bars extending longitudinally of the carriage on the front of the same, dogs slidably mounted on said bars, a power device under the carriage, operative connections between said power device and the carriage to effect travel of the carriage, and operative connections between said power device

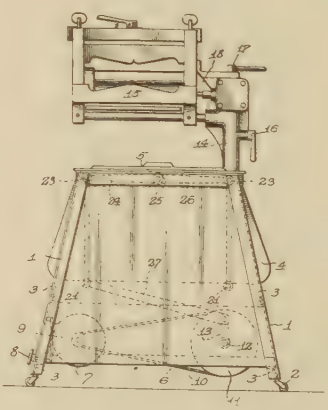


and the dogs to move the dogs into engagement with work or release them from work.

1,420,962. POWER BELT. JACOB BRECER, Marion, Va. Filed July 2, 1920. Serial No. 393,520. 6 Claims. (Cl. 74—65.)

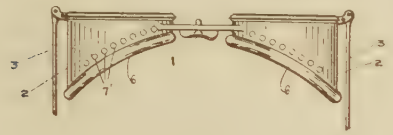
1. A belt, composed of longitudinal substantially inelastic or non-stretching strands, arranged parallel and serving as a warp, and a basketwork filling applied to said strands.

1,420,963. WASHING MACHINE. GEORGE E. BRIERLY, Detroit, Mich. Filed May 20, 1920. Serial No. 382,825. 3 Claims. (Cl. 259—91.)



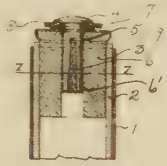
1. A washing machine comprising side frames, an oscillatory receptacle between said frames, independently supported equalizing members supported from said side frames, means having connection at the sides of said receptacle and at the ends of said equalizing members for supporting said receptacle so that it may be oscillated, and means at the lower ends of said frames adapted for operating the supporting means of said receptacle to impart movement thereto.

1,420,964. BRIGHT AND BLACK GOGGLES. LUCIAN W. BUGBEE, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Oct. 26, 1917. Serial No. 198,590. 5 Claims. (Cl. 2—149.)



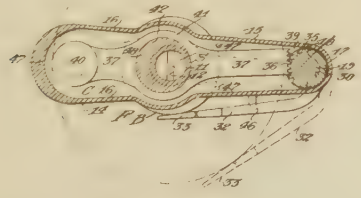
1. A pair of goggles including eye cups, a lining on the inside of each cup containing heat radiating properties and the outer wall of each cup being formed with a heat reflecting surface.

1,420,965. DISPENSER AND CONTAINER FOR PERFUMES. GEORGE W. BUTTON and MILTON SIERAD, New York, N. Y. Filed July 6, 1921. Serial No. 482,705. 8 Claims. (Cl. 215—37.)



3. A combination container and dispenser having a receptacle adapted to contain a fluid and having an outlet opening, a movable member having a wick of absorbent material associated therewith and fitting into the said opening so that the fluid can only pass out of the said receptacle through the said wick, the said movable member being so mounted that the movement thereof is adapted to cause the said fluid to pass through the said wick.

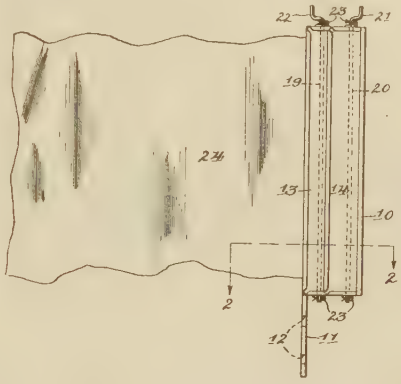
1,420,966. FLIER FOR ROVING FRAMES. LEON W. CAMPBELL, Providence, R. I. Filed May 2, 1919. Serial No. 294,317. 12 Claims. (Cl. 118—57.)



1. In a flier for roving frames or like textile apparatus, the combination with a member rotatable about the axis of the roving bobbin, of a presser hinged to said member on an axis parallel with and at a distance apart from the axis of the bobbin, a weighted lever pivoted on a separate axis from that of the presser and eccentrically disposed with relation to the axis of the bobbin, and means connecting the presser to the weighted lever to swing the latter against the resistance applied thereto under the action of centrifugal force.

1,420,967. SIGNAL FLAG. WILLIAM D. CARRINGTON, Inver Grove, Minn. Filed May 23, 1921. Serial No. 471,799. 3 Claims. (Cl. 116—173.)

1. In a device of the class described a casing adapted to be secured to a locomotive, a door in said casing, resilient means for normally holding said door in closed position, a spindle revolubly mounted in said casing, a flag secured at one edge to said spindle and arranged to be frictionally



engaged by said door when extended and means for turning said spindle to wind said flag thereon.

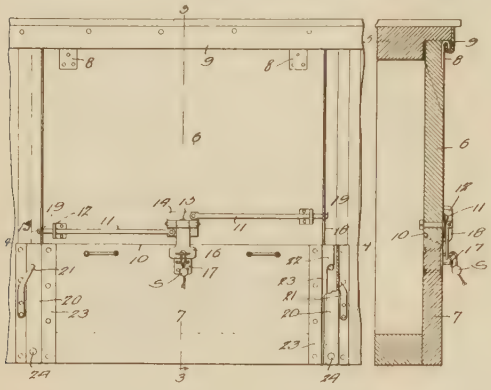
1,420,968. CAR SEAL. CHARLES W. CHAMPLIN, Cedar Falls, Iowa, assignor of one-half to Seward Higby, Cedar Falls, Iowa. Filed Feb. 17, 1921. Serial No. 445,709. 2 Claims. (Cl. 292—322.)

1. A device of the character described, consisting of a resilient strip having in one end an opening, the other end being shaped and folded to provide a V-shaped pocket with longitudinally positioned overlapped and sealed side tabs which provide a narrow mouth next the strip and having a tab bent upon itself located within the pocket, the first-mentioned end of the strip being adapted to enter said slit to spring the elbow of said tab through its opening, and then to permit the finial of the tab to pass through said opening, with the end of the strip then received in the elbow of the tab and interlocked therewith.

1,420,969. CAR DOOR. CHARLES M. COOPER, Oklahoma, Okla. Filed June 21, 1920. Serial No. 390,521. 1 Claim. (Cl. 20—22.)

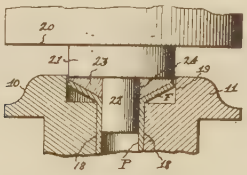
In a vertically sliding door, the combination of strips extending in the plane of the door from the respective lateral edges, each strip being of increased width at its upper portion to provide a shoulder, channel-ways in which the respective strips are slidably disposed, the outer wall of each channel-way being apertured near its upper end, a spring arm secured adjacent each of said apertures and bent at its free end to provide a stop adapted to pass

through the respective aperture and engage beneath the respective shoulder to hold the door in its raised or closed



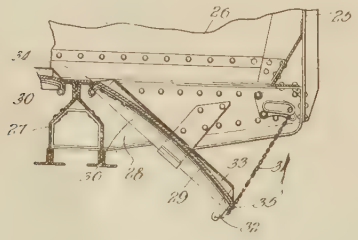
position, and a bolt passing through each channel near its lower end to engage said respective shoulder and support said gate when in lowered or open position.

1,420,970. FORMING DIE. CHARLES G. CORNELL, Jr., New York, N. Y. Filed Aug. 1, 1921. Serial No. 488,843. 3 Claims. (Cl. 153—79.)



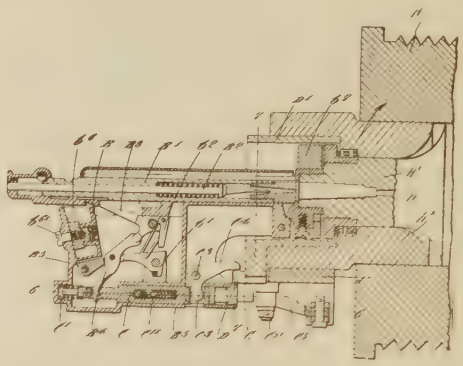
1. A forming die for flanging the end of a pipe comprising a female die member having a central bore adapted to engage the body portion of the pipe, and a cylindrical recess at the extremity of the bore of larger diameter than said bore and adapted to receive the end of the pipe, a male die member adapted to enter said female die member consisting of a plunger or follower formed with a large cylindrical section and a small end cylindrical extension so constructed and arranged as to permit said small end cylindrical extension to pass through said recess and into the central bore of the female die member and open end of the pipe within the female die member and the large cylindrical section adapted to pass into and be seated in said cylindrical recess, and a removable swivel ring loosely surrounding said small end cylindrical extension and abutting against the adjacent end portion of the large cylindrical section.

1,420,971. DOOR FOR RAILWAY CARS OF THE DUMPING-CAR TYPE. JAMES CRAIG, Andover, Mass. Filed Sept. 5, 1919. Serial No. 321,879. 13 Claims. (Cl. 105—280.)



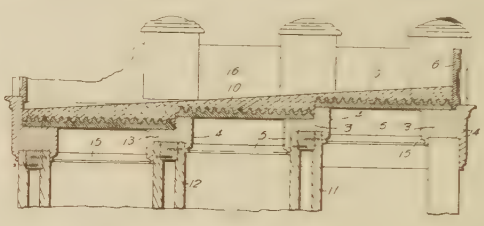
1. A door for a railway car of the dumping car type, comprising a sheet metal plate which is arched or curved upwardly at the center and formed with rigidifying corrugations which extend across said arched portion.

1,420,972. ORDNANCE FIRING MECHANISM. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to Vickers Limited, Westminster, England. Filed June 7, 1918. Serial No. 238,741. 9 Claims. (Cl. 89—27.)



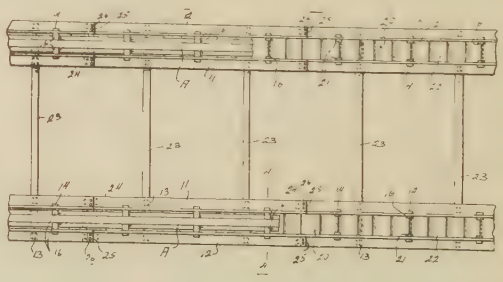
1. In breech loading ordnance, the combination with the breech screw and the axial vent bolt or mushroom stem of a rifle lock constituting the firing mechanism, means formed on the lock body for directly attaching said lock to said bolt, and flexible mechanical means whereby the striker of said lock can be released to fire the gun from a position on the gun mounting or the gun cradle.

1,420,973. BUILDING. ROBERT L. DAY, Huntington, W. Va. Filed Oct. 20, 1921. Serial No. 508,924. 2 Claims. (Cl. 72—0.5.)



1. A building comprising walls, a coping cap for the tops of such walls comprising a horizontal member and spaced inner and outer vertical members, the tops of the outer vertical member being substantially in the same horizontal plane, and the bottoms of the outer member being substantially in the same horizontal plane, and the horizontal member, at different portions of the building, being at different horizontal planes, and a roof supported upon the horizontal members of the coping caps having a sloped upper surface with a ceiling surface formed of sections that are in different horizontal planes but which are level.

1,420,974. RAIL-SUPPORTING STRUCTURE. WILLIAM P. DAY, Cleveland, Ohio. Filed July 30, 1921. Serial No. 488,652. 9 Claims. (Cl. 238—25.)



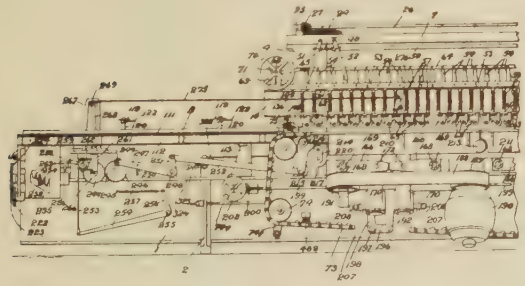
1. A rail supporting structure of the character described formed to provide a channel extending longitudinally of

and beneath the rail for the entire length of the rail, an elastic filler disposed in said channel, a plate disposed within the channel and upon which the rail rests and extending the entire length of the channel and rail, said plate having alternate crests and valleys upon its upper surface, said corrugations extending at right angles to the length of the rail and the rail being depressible into the valleys under tractive effect, and means for holding the rail against said plate.

1,420,975. ORE JIG. FRED DE MIER, Picher, Okla. Filed July 6, 1921. Serial No. 482,700. 5 Claims. (Cl. 83—79.)

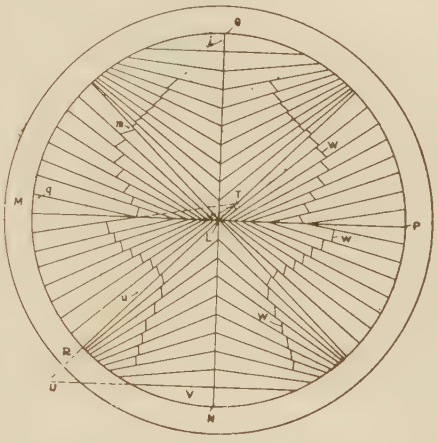
1. In an ore jig, a tank divided into a plurality of cells having screened bottoms, a plurality of rakes, one for each of the cells, means for supporting the rakes for curvilinear movements comprising yokes, a shaft, rocker arms fixed to the shaft and having sliding contact with said yokes, means for oscillating said shaft whereby said rocker arms are lifted and lowered to effect a vertical movement of the several rakes, and means for reciprocating the rakes in such manner that the two motions occur alternately with respect to the upward and downward movements of the rocker arms.

1,420,976. LUMBER-JOINING MACHINE. GLENN H. DICKERSON and ANTHONY VANDERVELD, Grand Rapids, Mich., assignors to Dickerson Glue Jointer Company, Grand Rapids, Mich., a Corporation of Michigan. Filed Nov. 2, 1920. Serial No. 421,239. 92 Claims. (Cl. 144—3.)



1. In a lumber joining machine having two sets of cutters for forming interfitting dove-tailed tongues and grooves on the edges of two lengths of lumber, means for feeding said lengths of lumber past the cutters and into engagement with each other, means for moving the lengths of lumber with respect to the cutters to form tapered tongues and grooves thereon, and means for applying glue to the edges of the lengths of lumber on which the tongues and grooves are cut.

1,420,977. ILLUMINATING APPLIANCE. WILLIAM A. DOREY, Newark, Ohio, assignor to Holophane Glass Company, Inc., New York, N. Y., a Corporation of New Jersey. Filed July 14, 1919. Serial No. 310,683. 4 Claims. (Cl. 240—48.4.)



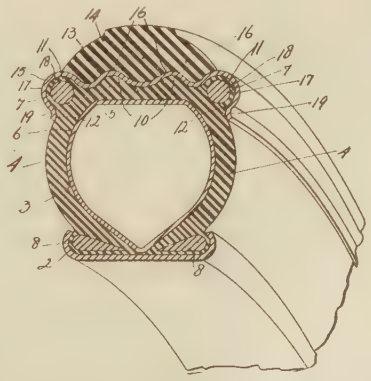
1. An illuminating appliance comprising a source of light, a reflector therefor, and a plate adapted to receive light rays from the reflector, such plate being divided into a plurality of sections by the vertical and horizontal diameters of the plate, each of such sections being covered by a system of prisms which are radial from a point beyond the center and in the section diagonally opposite, and adapted to deflect the reflected light rays below a definite horizontal suppression line in a wide beam.

1,420,978. INSECTICIDE AND METHOD OF MAKING SAME. HERBERT H. DOW, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Jan. 27, 1919. Serial No. 273,440. 6 Claims. (Cl. 167—6.)

4. A composition of matter for insecticidal use comprising di-magnesium ortho-arsenate admixed with approximately one-fifth the amount of magnesium hydrate, all in the form of a fine dry powder.

5. The method of making an insecticide which consists in reacting between magnesium hydrate and arsenic acid, whereby magnesium arsenate is formed, the hydrate being used in excess so that a certain amount thereof will remain admixed with such arsenate.

1,420,979. TIRE AND PUNCTUREPROOF PROTECTOR THEREFOR. EUGENE EHLICH, Endicott, N. Y. Filed Mar. 8, 1921. Serial No. 450,558. 2 Claims. (Cl. 152—17.)



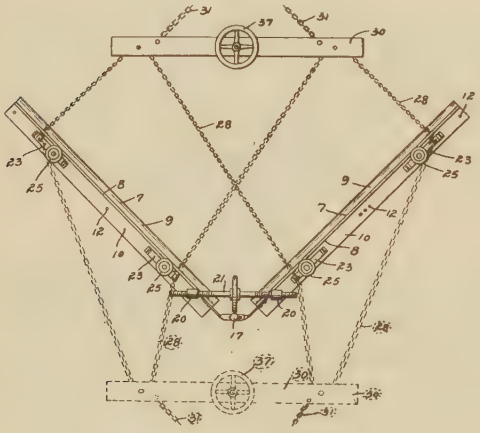
2. In a device of the character stated, the combination with a wheel of a tire consisting of side walls and a tread

wall all of soft, pliable, elastic rubber, a metallic band removably mounted upon the tire and of sufficient thickness or strength to maintain its circular shape and thereby follow the eccentric positions assumed by the tire when supporting a load and a soft solid rubber tread molded on said band.

1,420,980. PROCESS OF MANUFACTURING ELECTRICAL RESISTANCE MATERIAL. FERDINAND EICHENBERGER, Aarau, Switzerland, assignor to The Firm S.-A. Kummler & Matter, Aarau, Switzerland. Filed Nov. 6, 1920. Serial No. 422,336. 2 Claims. (Cl. 219—76.)

2. The herein described process of manufacturing an electrical resistance material, consisting in forming a paste of finely comminuted silicon carbide, calcium carbonate, oxide of metal and graphite, molding the same into a body, embedding said body in a sand mixture, and burning the same at a high temperature in the absence of air.

1,420,981. ROAD MACHINE. MARION A. ESTY, Eldon, Mo. Filed Jan. 21, 1921. Serial No. 439,039. 4 Claims. (Cl. 37—5.)

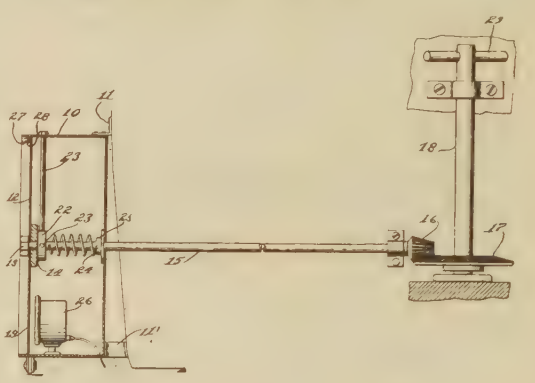


1. A road machine composed of two scraper and packing blades pivotally connected together, means located at the rear end of the blades for inclining the same and means for adjusting the blades to and from each other while the machine is in motion, and adjustable wheel supports for said blades, said blades being arranged to grade the road surface and crown it when moving in one direction and when moving in the opposite direction to pack and smooth said surface.

1,420,982. CHROMATROPE. JOHN STURTON EWART and WILLIAM ERNEST CLIFTON, Nottingham, England. Filed June 2, 1919. Serial No. 301,170. 3 Claims. (Cl. 46—14.) (Granted under the provisions of the act of March 3, 1921, 41 Stat. L., 1313.)

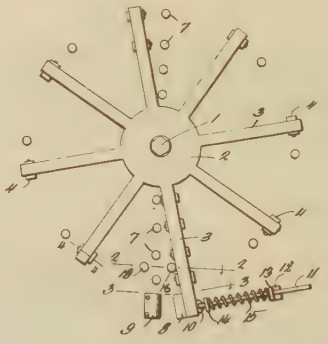
1. In a chromotrope, a main disk provided with means for revolving it, pivots which revolve with the main disk and which project laterally of it at predetermined distances from its center, and subsidiary disks provided with color patches and having center holes of larger diameter than the pivots, which holes engage slidably with the pivots and permit the subsidiary disks to move to positions eccentric of the pivots.

1,420,983. AUTOMOBILE SIGNAL. SEBASTIANO FASCI, South Weymouth, Mass. Filed Sept. 8, 1921. Serial No. 499,141. 4 Claims. (Cl. 116—46.)



1. An automobile signal comprising in combination a stationary housing, a rotatable disc located in said housing and covering the front thereof, said disc having distinctive markings, means operable by the driver for imparting to said disc a rapid rotary movement in one direction, and resilient means for imparting to said disc a rapid rotary movement in the opposite direction.

1,420,984. SWITCH. ELLA C. FINDLEY, Victoria, British Columbia, Canada. Filed Dec. 15, 1920. Serial No. 430,871. 1 Claim. (Cl. 200—6.)

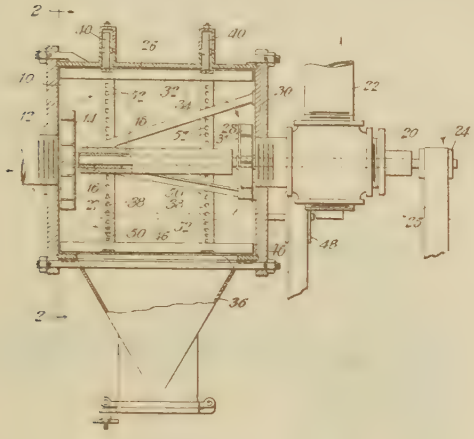


A rotary switch comprising a body, arms radiating therefrom contacts on the arms, stationary contacts, stop means for holding the switch in an open position, a rod loosely mounted on one of the arms, a coil spring on the rod for closing the switch upon removal of the stop means.

1,420,985. PIGMENT AND METHOD OF PRODUCING THE SAME. PETER FIREMAN, Trenton, N. J., assignor to Magnetic Pigment Company, a Corporation of New York. Filed Apr. 8, 1921. Serial No. 459,721. 10 Claims. (Cl. 134—59.)

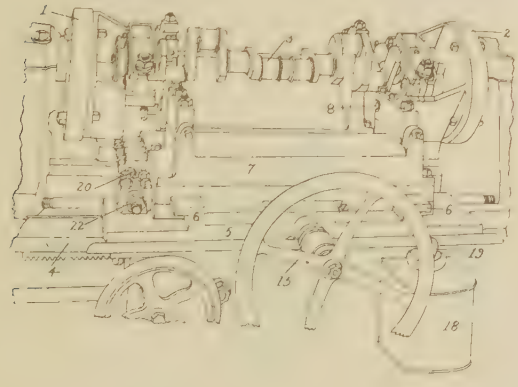
10. A method of producing a dark brown pigment which comprises, precipitating ferrous hydroxide from a solution of a ferrous salt, heating said solution and subjecting the precipitate therein to the action of air for a period ranging from 10 to 15 hours.

1,420,986. APPARATUS FOR REMOVING SUSPENDED MATTER FROM GASES. JAMES P. FISHER, Bartlesville, Okla., assignor, by mesne assignments, to Doherty Research Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 29, 1919. Serial No. 320,587. 13 Claims. (Cl. 183—76.)



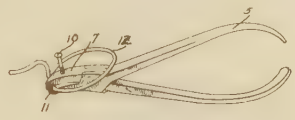
1. Apparatus for separating suspended matter from gases comprising a chamber, a gas inlet at one end of the chamber, a gas outlet at the other end of the chamber, a fan mounted adjacent to said inlet arranged to create centrifugal force for throwing the material from the inlet to the walls of the chamber, a fan mounted adjacent to said outlet arranged to create a centrifugal force of lesser degree than the force of the inlet fan, and means on the outlet fan arranged to cause gases to pass from the chamber directly through the fan into the outlet, said chamber being of a length substantially greater than the combined width of the fans, so as to enable suspended matter to settle out of the gas during its passage from one fan to the other.

1,420,987. LATHE. FREDERICK S. FLOETER, Saginaw, Mich. Filed Aug. 2, 1920. Serial No. 400,718. 2 Claims. (Cl. 82—9.)



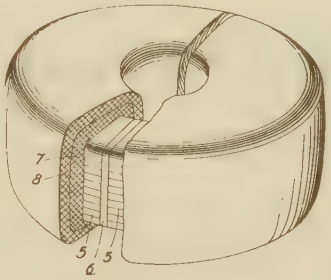
1. In a turning lathe, the combination of a carriage, a transversely movable tool-carrying slide on said carriage, oppositely disposed tools on said slide, a screw mounted on said carriage and operatively connected to said slide, a motor mounted on said carriage and traveling therewith, said motor geared to the screw, a projection on said transverse slide and adjustable stops on said carriage, whereby to stop the transverse movement of the slide.

1,420,988. PLIERS. FRED. T. FOEHL, Brooklyn, N. Y. Filed June 15, 1921. Serial No. 477,671. 1 Claim. (Cl. 81—15.)



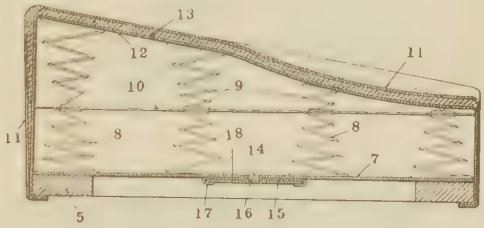
A plier including a pair of jaws having their inner faces similarly curved throughout their entire length and extending normally parallel to each other, each of said jaws being formed with grooves adjacent its outer end.

1,420,989. TRANSFORMER. WILLIAM FONDILLER, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 15, 1917. Serial No. 202,105. 7 Claims. (Cl. 175—356.)



1. A transformer for telephone systems having a core of high permeability silicon steel having a comparatively short gap therein and a spacer of finely divided iron for said gap.

1,420,990. CUSHION. JULIAN S. FRIEDE, St. Louis, Mo., assignor to Moon Motor Car Company, St. Louis, Mo., a Corporation of Missouri. Filed Mar. 17, 1921. Serial No. 452,962. 2 Claims. (Cl. 155—179.)

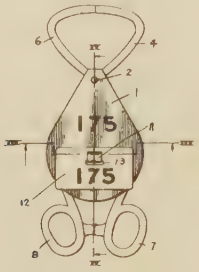


2. In a device of the class described, the combination with a base, of springs carried by said base, an air-tight cover for said springs, a bottom board carried by said base and provided with an air vent, a plate carried below said bottom board and provided with guide ways, and a slide operating in said guide ways to vary the effective area of said vent.

1,420,991. BAGGAGE CHECK. PATRICK J. EAGAN, San Francisco, Calif. Filed Aug. 11, 1921. Serial No. 491,374. 3 Claims. (Cl. 40—6.)

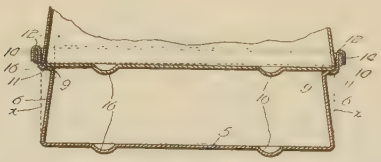
1. A baggage checking device comprising a numbered storage check provided with a pair of tong members adapt-

ed to engage an article of baggage, a claim check numbered to correspond with the said storage check and means



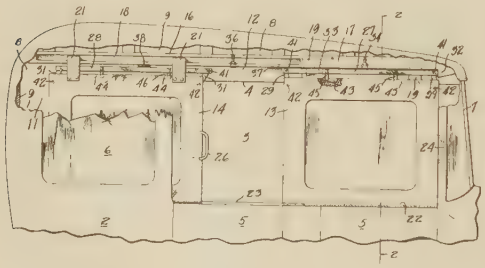
operated by said tongs for holding said claim check to said storage check.

1,420,992. STACKING TOTE BOX. AXEL F. ERICKSON, Aurora, Ill., assignor to Allsteelequip Company, Aurora, Ill., a Corporation of Illinois. Filed Apr. 26, 1919. Serial No. 292,829. 1 Claim. (Cl. 220—97.)



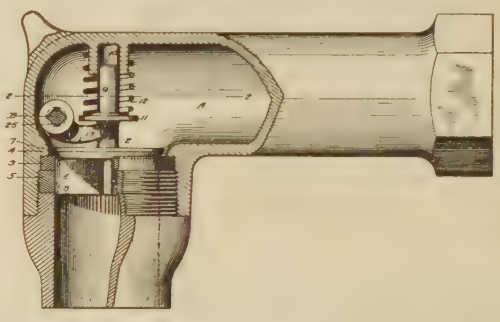
A metal tote-box comprising a rectangular bottom, parallel reinforcing members extending longitudinally thereof, to provide runners therefor, end and side walls arising from the longitudinal and transverse edges of said bottom; said walls being inclined inwardly toward their tops, L-shaped flanges extending longitudinally along the upper portions of said walls the horizontal portions of which flanges providing outwardly extended shelves upon the four sides of the box whereby to support a superposed box and the vertical portions of said flanges being disposed at right angles to said shelves whereby to retain the superposed box against lateral movement, turned-back portions along the upper edges of said flanges providing U-shaped channels; said flanges being spaced from each other at their ends, and a strip of metal inserted in said channels and extended around the ends of the flanges to close the spaces between their ends.

1,420,993. LOCK FOR SLIDABLE WINDOWS. ELECIE P. FARUM, Oakland, Calif., assignor to Don Lee, San Francisco, Calif. Filed May 28, 1920. Serial No. 385,040. 4 Claims. (Cl. 296—47.)



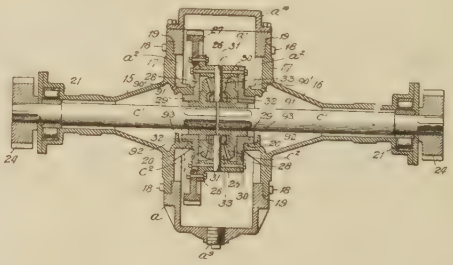
1. In combination with the side window frame of the enclosed type of body of an automobile, a horizontally disposed track at the top portion of said frame, a window sash slidably disposed in said frame, a hanger engaging said track and secured to said sash, a vertically movable bar arranged between the track and the top of said sash, a pair of horizontally aligned longitudinally spaced parallel links of equal length connecting said bar to said sash, an abutment fixed to said track arranged to throw the bar into tight engagement with the track as the sash approaches the limit of its movement in one direction, and a second abutment fixed to said track and engageable by said bar and link mechanism at the initiation of the return movement of said sash for releasing said engagement of the bar and track.

1,420,994. VALVE. GEORGE LEANDER FISH, Modesto, Calif., assignor, by mesne assignments, to Geo. L. Fish Corporation, Reno, Nev., a Corporation of Nevada. Filed Jan. 28, 1920. Serial No. 354,538. 3 Claims. (Cl. 251—132.)



2. The combination with a valve stem and bevel faced valve and its seat, of a rock shaft journalled at right angles with the valve stem, said shaft having a rectangular portion carrying forked lifter arms, and a collar upon the valve stem engageable by the lifter arms to open the valve, a spring acting against the opposite side of the collar to close the valve when released, a bushing in which the shaft is closely turnable, said bushing having a sharp interior edge and a bevel faced collar upon the shaft turnable in contact with said seat whereby the moving joint is made tight without other packing.

1,420,995. GEARING FOR TRACTORS. JOHN B. FOOTE, Oak Park, Ill., and GEORGE T. STRITE, Minneapolis, Minn., assignors to Foote Bros. Gear & Machine Co., Chicago, Ill., a Corporation of Illinois. Original application filed Sept. 28, 1916, Serial No. 122,594. Divided and this application filed Aug. 26, 1918. Serial No. 251,442. 6 Claims. (Cl. 74—99.)

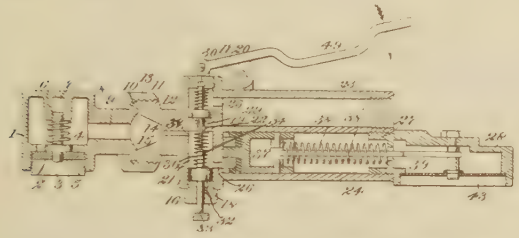


1. In variable speed transmission gearing for tractors, the combination of a case, sleeves on the sides of the case, differential gearing comprising shafts extending through said sleeves, and bearings in the sleeves for the differential gearing, the case being provided with elevated pockets for catching lubricant splashed by the gearing and with means for conducting lubricant from the pockets into the inner ends of the sleeves.

1,420,996. METHOD FOR THE MANUFACTURE OF HOLLOW GLASS BODIES PARTICULARLY FOR ELECTRIC GLOWLAMP BULBS. ERNST FRANK, Berlin, Germany, assignor to Patent-Treuhand-Gesellschaft fur Elektrische, Gluhlampen m. b. H., Berlin, Germany, a Corporation of Germany. Filed Sept. 3, 1921. Serial No. 498,484. 5 Claims. (Cl. 49—79.)

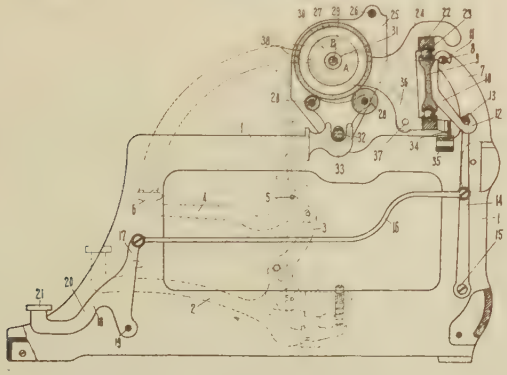
5. In the method of manufacturing hollow glass articles having a clear portion and an opaque portion, coating a long clear glass tube with fusible opaque glass paste at intervals along its length, severing the tube into blanks each having a clear portion and a coated portion, heating the blank to blowing temperature and simultaneously fusing the coating, and blowing the article.

1,420,997. COMBINED TIRE GAUGE AND FILLING VALVE. ARTHUR A. FREEMAN, Oakland, Calif. Filed Jan. 3, 1921. Serial No. 434,572. 1 Claim. (Cl. 152—11.5.)



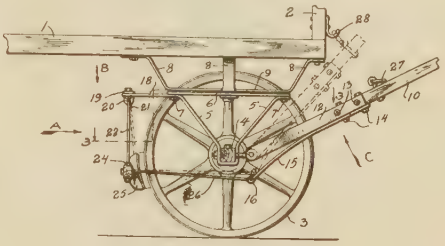
A device of the class described, comprising a pair of parallel cylinders, one having a connection for a source of air pressure supply and the other carrying a pressure gauge, both of said cylinders being mounted to a transverse barrel shaped housing, said housing being divided to leave two chambers each of which communicating with one of the said cylinders, a communication between the chambers within the said housing and a communication between that one of the chambers, which communicates with the cylinder that carries the pressure gauge, with a tire filling valve, and means within the said barrel shaped housing for selectively establishing or interrupting the communications between the source of air pressure supply and the tire filling valve and the tire filling valve and the cylinder which carries the pressure gauge, said means comprising a valve in each of the said chambers, said valves being mounted on a single stem with one end of the stem projecting through the end of said barrel shaped housing, and a lever for actuating the valves together having a looped strap straddling said barrel shaped housing and looped over the projecting end of said stem and with the opposite ends of the strap connected to a lever which in turn is pivoted to actuate the valves through said strap and the said stem.

1,420,998. TYPEWRITER. CARLO GAGLIAZZO, Ronco Biellese, Italy. Filed Apr. 3, 1920. Serial No. 370,914. 5 Claims. (Cl. 197—60.)



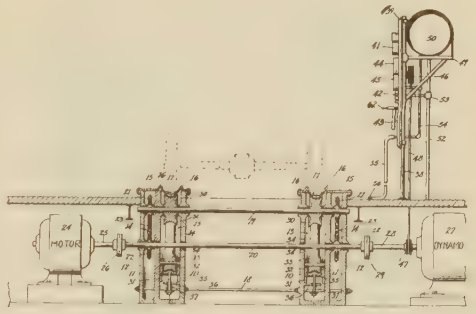
1. In a typewriter of the kind having type blocks each provided with a plurality of types, a stationary frame, pivoting means in said frame, a carriage carrier removably hung upon said pivoting means, and controlling means for shifting said carriage carrier around said pivoting means to obtain the impression of either of said types, said controlling means being removably engaged by said carriage carrier.

1,420,999. TRUCK BRAKE OR LOCK. JAMES O. GARRETT, Denver, Colo. Filed Aug. 11, 1921. Serial No. 491,371. 7 Claims. (Cl. 188—119.)



1. The combination with a truck having a tongue adapted to be manually raised, of a brake beam operatively mounted adjacent a pair of the wheels, and resilient means carried by the tongue and connected in operative relation with the beam to be placed under tension during the raising of the tongue, and to move the beam into the brake-setting position during the tongue-raising act, and to resiliently retain the beam in such position when the tongue is raised.

1,421,000. TESTING MACHINE FOR MOTOR VEHICLES. CARRELVERNON B. GINN, Brenham, Tex., assignor of one-half to Paul D. Ginn, Brenham, Tex. Filed Aug. 30, 1920. Serial No. 406,789. 7 Claims. (Cl. 73—51.)

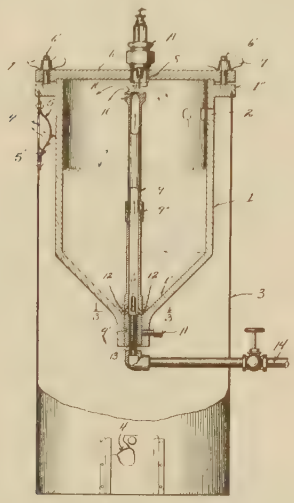


1. A machine for testing motor vehicles including spaced wheel traction means coupled to turn in unison, a shaft common to both of said means and coupled therewith, a motor at one end of said shaft, means for coupling the motor with the shaft, a dynamo at the other end of said shaft, and means for coupling the dynamo with the shaft.

1,421,001. SPARK-PLUG CLEANER. WILLIAM F. HAGEN, Manitowoc, Wis. Filed Feb. 10, 1921. Serial No. 443,900. 3 Claims. (Cl. 51—8.)

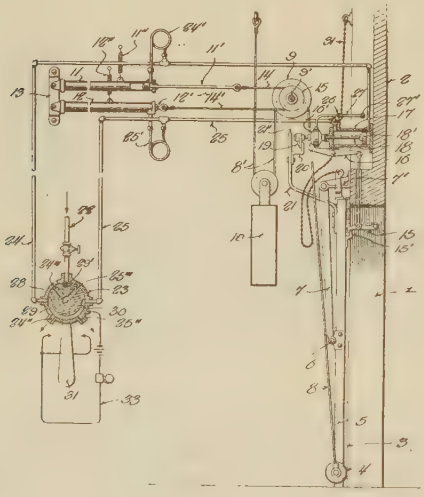
1. A cleaning apparatus for spark plugs or the like comprising a vented hopper adapted to receive granulated abrasive material, a blast nozzle having an apertured discharge head arranged to extend above the normal line of the abrasive material, the nozzle being provided with intake ports communicating with the hopper below the normal line of said abrasive material, a cap for the hopper having a plug receiving aperture therein and positioned

in a field of contact with the head orifice of the nozzle, an air discharge nipple extending into the blast nozzle



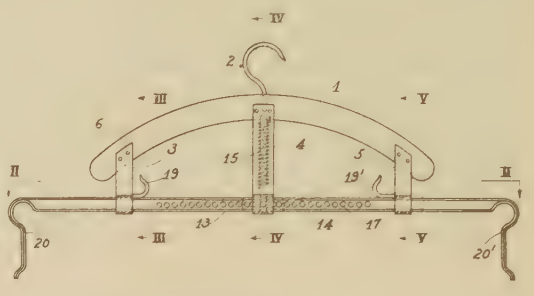
and terminating a pretetermined distance beyond the intake portion thereof, and a metal air and abrasive separating tank in communication with the hopper.

1,421,002. DOOR-OPERATING MECHANISM. WILLIAM F. HAGEN, Manitowoc, Wis. Filed Feb. 28, 1921. Serial No. 448,634. 5 Claims. (Cl. 268—1.)



1. A fluid controlled operating mechanism for doors comprising an open main cylinder and a closing main cylinder, an operating connection between each cylinder and the door including a runner, a fluid controlled initial opening and final closing auxiliary cylinder engageable with the door, a fluid supply and exhaust valve connecting the head ends of the main cylinders, and opposite ends of the auxiliary cylinder, whereby fluid, under pressure, is selectively introduced into the opening cylinder and auxiliary cylinder or into the closing cylinder and auxiliary cylinder to positively control the door in either a full opening operation or a full closing operation.

1,421,003. GARMENT HANGER. WILLIAM N. HARTZELL and HARRY A. WEISS, Butler, Pa. Filed Sept. 7, 1921. Serial No. 499,103. 8 Claims. (Cl. 211—13.)

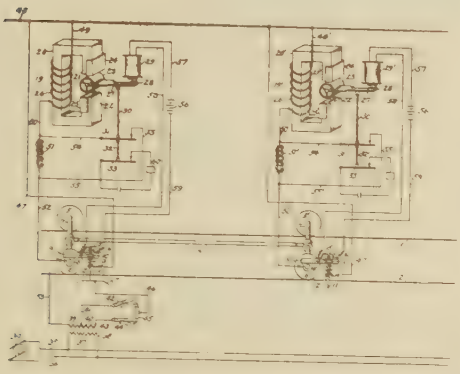


1. A garment hanger comprising a crosstree, supporting guide brackets depending therefrom, a pair of racks mounted in said brackets for engaging the garment to be suspended, a pinion meshing with both said racks, and means for forcing said racks in an outward direction.

1,421,004. WELL PUMP. HOWARD H. HIBBARD, Los Angeles, Calif., assignor to Hibbard Petroleum Company, Los Angeles, Calif., a Corporation of Delaware. Filed Apr. 9, 1921. Serial No. 459,955. 1 Claim. (Cl. 103—80.)

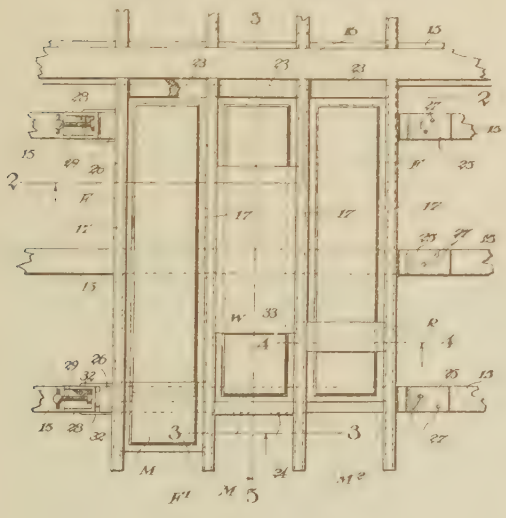
In combination, a tube adapted to extend into a well, a barrel carried at the lower end of the tube, a pump chamber connected with the lower end of the barrel, a hollow rod extending into the tube, a plunger connected to the lower end of said rod and slidably carried in the barrel so that its lower part extends into the pump chamber with working clearance, valve means whereby reciprocation of the plunger causes pumping of fluid from the well through the pump chamber and up through the rod, and a fluid conduit connected with the tube above the barrel to receive fluid therefrom and extending to and opening into the space between the plunger and pump chamber to direct a jet of fluid into said space to flow downwardly therein to prevent material being pumped through said pump chamber from passing upwardly in said space and into contact with the slidably cooperative parts of the plunger and barrel.

1,421,005. AUTOMATIC TRAIN-CONTROL SYSTEM. WINTHROP K. HOWE, Rochester, N. Y., assignor to General Railway Signal Company, Gates, N. Y., a Corporation of New York. Filed Jan. 21, 1915. Serial No. 3,469. 33 Claims. (Cl. 246—180.)



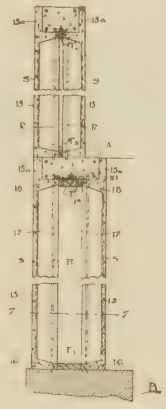
30. Railway traffic controlling apparatus for a train made up of a plurality of vehicles, comprising a train-governing electro-magnetic means on each vehicle having a pick-up winding and a holding winding, a circuit for the holding winding of each electro-magnetic means including a circuit controller on the same vehicle biased to closed position, a continuous conductor extending throughout the train, the pick-up winding of each electro-magnetic means being connected across said conductor and ground, and means located in the trackway for opening the said circuit controller on each vehicle and for connecting a source of current with said continuous conductor and ground.

1,421,006. BLOCK MOLD. EDWARD BEACH HOWELL, Butte, Mont. Filed Mar. 2, 1921. Serial No. 449,052. 11 Claims. (Cl. 25—121.)



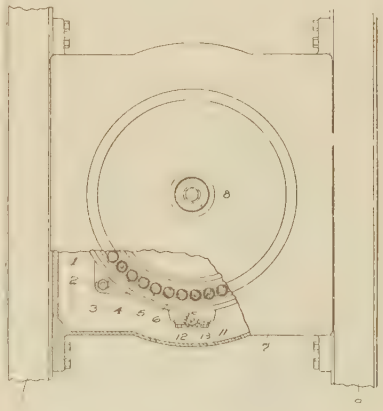
3. A block mold comprising, partitions supported for bodily movement laterally, and filler blocks arranged between the partitions so as to coact with the partitions in forming a block having flanges when a plastic material is introduced between the partitions.

1,421,007. BUILDING WALL. HENRY WARD HOWELL, Butte, Mont. Filed Jan. 26, 1921. Serial No. 439,988. 11 Claims. (Cl. 72—16.)



1. A building wall comprising building units arranged in spaced relation to each other, flanges extending inwardly from the confronting faces of the units, spacing strips interposed between the horizontal flanges of confronting units, and means for securing the units in engagement with the spacing strips.

1,431,008. EXHIBITION TURNTABLE. EDWARD R. INMAN, Franklin, Pa. Filed Feb. 2, 1920. Serial No. 355,656. 5 Claims. (Cl. 104—38.)

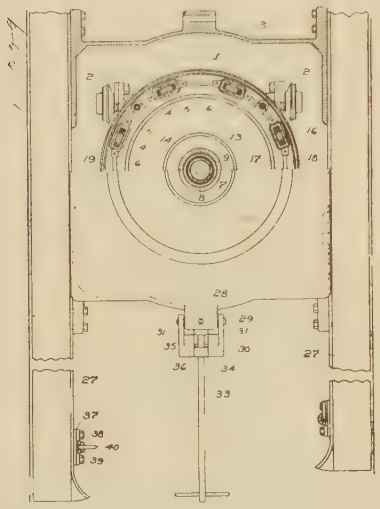


1. In an exhibition turn table, in combination, a turn table for automobiles comprising a base, a turret revolubly carried and fully supported by said base, carriers for an automobile carried by said turret with their tread-surfaces positioned below the upper surface of said turret, and mechanical means for revolving said turret.

1,421,009. TURNTABLE. EDWARD R. INMAN, Franklin, Pa. Filed Jan. 26, 1920, Serial No. 354,035. Renewed Dec. 23, 1921. Serial No. 524,508. 12 Claims. (Cl. 104—44.)

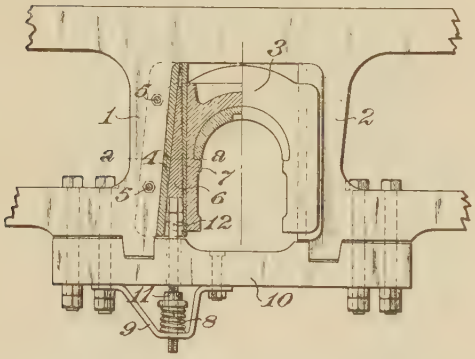
1. A turn table, comprising in combination, a base having as features thereof, a centrally located oil receptacle, and an annular oil channel concentrically encircling said receptacle; a pivotal bearing carried by said base within

said receptacle, an annular thrust bearing carried by said base within said channel, a turret revolubly mounted upon



said base supported by said thrust bearing, and engaging said pivotal bearing, and carriers carried by said turret for the purpose set forth.

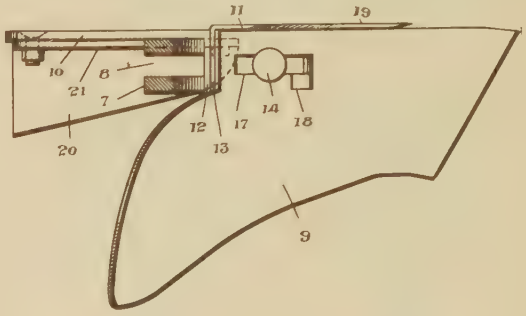
1,421,010. DRIVING-BOX WEDGE. JULIUS KINDERVATER, New York, N. Y. Filed Mar. 16, 1922. Serial No. 544,107. 5 Claims. (Cl. 105—81.)



1. The combination of a frame pedestal; a driving box, fitted therein; an automatically operable adjusting wedge, interposed between said driving box and the jaw of the pedestal having an inclined face; and means, detachably connected to said jaw, for imparting all pressure imposed on the adjusting wedge to the jaw.

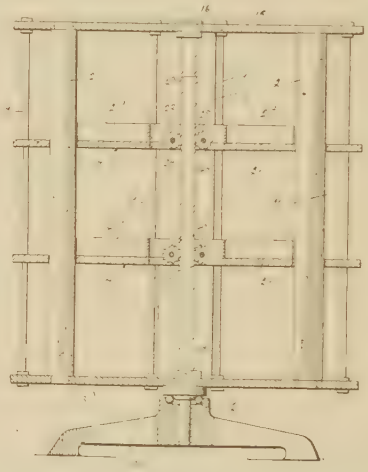
1,421,011. PLOW. WESLEY DOWELL KNIGHT, McDonough, Ga. Filed Sept. 6, 1921. Serial No. 498,632. 3 Claims. (Cl. 97—21.)

3. A plow comprising a landside having an inclined flange at its forward end to fit on a plow standard, a shin colter having a lower flange to fit on the landside flange, a share and moldboard blade to overlap the colter flange and abut said colter, said blade and flanges having longitudinal



slots, and clamping means to extend through said slots for clamping said blade and flanges on the standard.

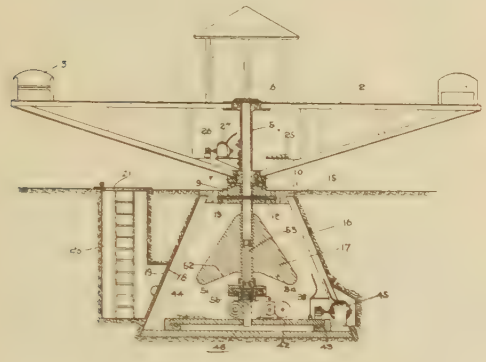
1,421,012. BOOKCASE. AUGUST J. KOEPSELL, Mayville, Wis. Filed July 17, 1920. Serial No. 396,960. 7 Claims. (Cl. 45—79.)



1. A rotary book case including a rotatable support, a plurality of shelves carried by said support, each of said shelves embodying a plurality of radial arms, a vertical support extending upwardly from each of said arms to the next adjacent arm and adjacent the outer ends thereof, said vertical supports being triangular in cross section and each having one of the sides thereof disposed toward the outer end of its respective arm and at right angles to the axis of the arm, the remaining sides being disposed at an angle to the longitudinal axis of said arm, a polygonal housing disposed centrally of the shelf and surrounding said support, the sides of said housing corresponding in number to the number of arms with which the shelf is provided, the corners of the housing being coincident with the axes of said arms and the sides of the housing being disposed toward the space intermediate the arms.

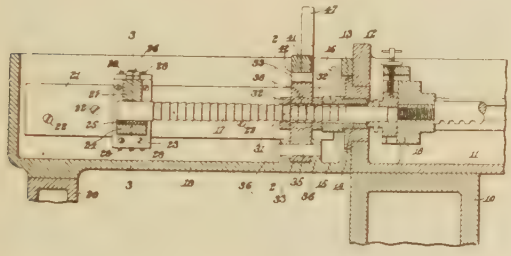
6. In a rotary book case, a rotatable vertical support horizontal shelves carried by said support, and means for vertically adjusting said shelves embodying, a rack formed upon said support, a shaft rotatably supported by each of said shelves and meshing with said rack, a second shaft rotatably supported by each of said shelves upon the under surfaces thereof and provided upon its inner end with a pinion and a second gear secured to said first named shaft and meshing with said pinion.

1,421,013. GYRATORY ROUNDABOUT. ERNEST KOHLER, Denver, Colo., assignor to The United Mines and Manufacturing Company, a Corporation of Arizona. Filed Aug. 28, 1919. Serial No. 320,390. 6 Claims. (Cl. 46—27.)



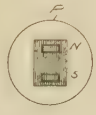
4. In an amusement apparatus, a nonrotatable column, a universally tiltable support for said columns between its ends, a counter-balancing device on the column below the tiltable support and means for swinging the column.

1,421,014. ATTACHMENT FOR BROACHING MACHINES. FRANCIS J. LAPOINTE, Ann Arbor, Mich. Filed Feb. 2, 1921. Serial No. 441,922. 21 Claims. (Cl. 90—33.)



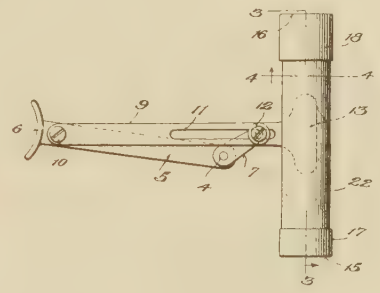
1. The combination with a reciprocating broach-supporting carriage having a broaching tool; a bushing through which said tool is adapted to reciprocate; a work support perpendicular to the path of movement of said tool; and means for adjusting said bushing endwise to clamp the work to said support.

1,421,015. TELEPHONE. MARIUS C. A. LATOUR, Paris, France. Filed Apr. 18, 1916. Serial No. 92,033. 7 Claims. (Cl. 179—115.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



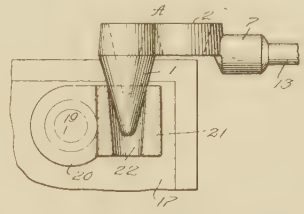
1. A telephone receiver having a coil carrying the telephonic current, an electromagnet excited by said coil, said electromagnet having a magnetic circuit comprising a fixed portion associated with said coil to provide a permanent field and a movable diaphragm, having slits extending in a direction from pole to pole of the fixed portion for eliminating eddy current losses.

1,421,016. AMALGAM MIXER. FRANK D. LEIPOLD, Clearfield, Pa. Filed Jan. 12, 1922. Serial No. 528,713. 14 Claims. (Cl. 259—75.)



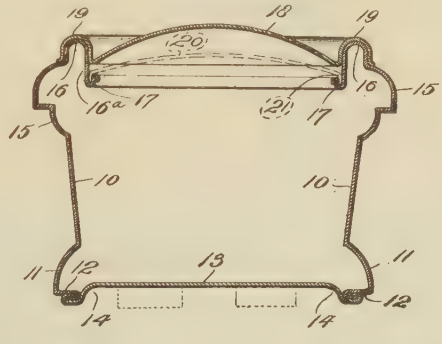
1. In an amalgam mixer, a chuck having a driving shaft, the chuck and shaft being formed for coupling to the flexible shaft of a dental engine, an arm on the shaft having a thumb member to allow the device to be held by engaging the thumb with said member and the fingers with said chuck, a holder, an amalgam receptacle carried by the holder, means to pivot the holder to the arm, and means carried by the shaft to oscillate the holder.

1,421,017. BATTERY CONNECTOR. GUSTAVE E. LUNDBERG, Kewanee, Ill. Filed Feb. 3, 1920. Serial No. 355,951. 3 Claims. (Cl. 173—259.)



3. A battery connector terminal comprising a portion having a conical exterior surface and having a conical hollow therein, the walls of the hollow being the surface of a cone of substantially the same angle as the exterior surface of the portion and a ring attached to said portion adjacent its base, the interior of said ring being frusto conical and having its smallest diameter substantially equal to the largest diameter of said hollow and the angle thereof being substantially equal to the angle of said conical hollow.

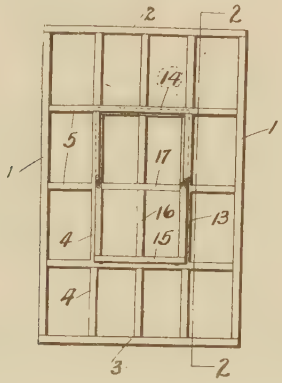
1,421,018. METAL CASKET. BERNARD T. MESKER, St. Louis, Mo., assignor to Mesker Brothers Iron Company, St. Louis, Mo., a Corporation of Missouri. Filed Oct. 3, 1919. Serial No. 329,485. 4 Claims. (Cl. 27—6.)



1. In a casket, a side wall reinforced along its upper edge by bending the same to form a rib, an integral convex

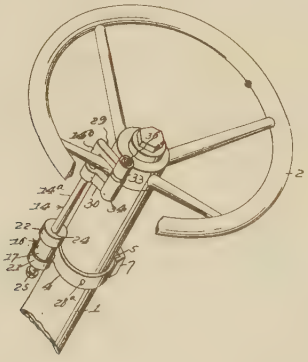
closure seat formed above said rib, an outer closure having a concave perimetric flange for engaging said seat in sealing contact, the inner edge of said seat being refolded inwardly and upwardly to form a supporting trough for an inner closure.

1,421,019. METAL WINDOW CONSTRUCTION. FRANK MESKER and JACOB BEUC, St Louis, Mo., assignors to Mesker Brothers Iron Company, St. Louis, Mo., a Corporation of Missouri. Original application filed May 13, 1920, Serial No. 381,043. Divided and this application filed Feb. 23, 1921. Serial No. 447,118. 8 Claims. (Cl. 189—69.)



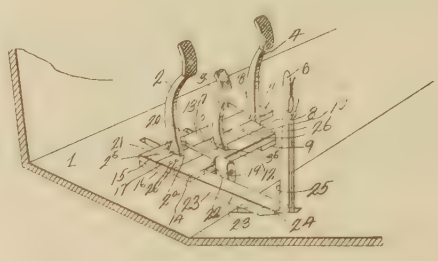
1. In metallic window construction, a sash formed of metal rails and provided with an opening adapted to receive a swinging ventilator, the rails to the sides of the ventilator opening having inwardly presented flanges that are slotted to form horizontally disposed shoulders, and a ventilator frame positioned in the opening in said sash, said ventilator frame including flanged upright side members, the flanges of which are bent intermediate their ends to provide shoulders which are adapted to rest upon and cooperate with the shoulders on the upright rails of the sash.

1,421,020. LOCKING DEVICE FOR STEERING WHEELS. HIRAM C. MILLER, Parkesburg, Pa. Filed Nov. 8, 1920. Serial No. 422,595. 5 Claims. (Cl. 70—129.)



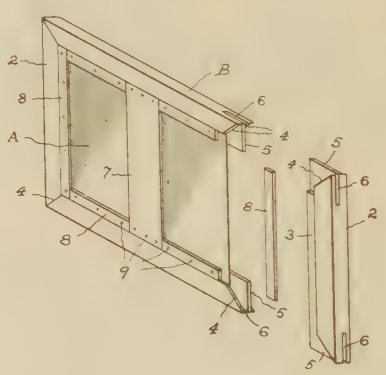
1. The combination with a steering column having a steering wheel, of upper and lower jaws engaging over and under one of the spokes of the steering wheel, one jaw being movable on the other, the adjacent ends of said jaws having rectangular openings, means engaging through the openings for connecting the two ends of said jaws, said means having parts adapted to lie at right-angles to the openings for locking the adjacent ends of the jaws together, and means for movably anchoring one of the jaws to the steering column.

1,421,021. LEVER LOCK. OTTO MILLER, Lake Township, Berrien County, Mich. Filed Nov. 5, 1921. Serial No. 513,024. 1 Claim. (Cl. 70—126.)



The combination with a clutch lever, a reverse lever, a brake lever disposed substantially side by side and spaced from each other and an emergency brake lever disposed rearwardly of said levers, of a locking device for locking all of said levers against movement, said device comprising a bar disposed between the clutch and brake levers and the reverse lever and having notches for receiving the sides of said levers, transversely disposed bars carried by the ends of said bar, notched bars disposed on the ends of the transversely disposed bars and adapted to receive the outer sides of said levers, a locking member for locking said bars against edgewise displacement and a rearwardly extending arm carried by one of the transversely disposed bars and having it's end in abutting engagement with the emergency brake lever.

1,421,022. ADVERTISING SIGN. NICHOLAS MOLLET, Massillon, Ohio. Filed Mar. 27, 1922. Serial No. 547,124. 3 Claims. (Cl. 40—125.)

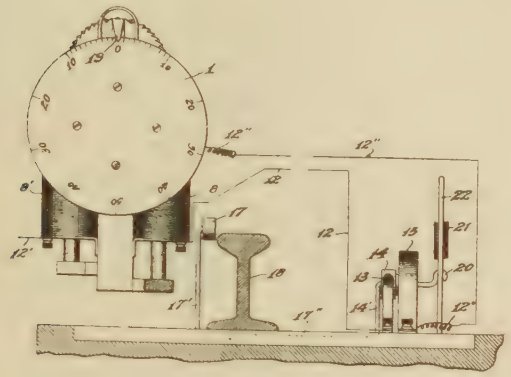


1. An advertising sign of the character described, including a frame having the inner edges thereof rabbeted at the back of the frame, a sign plate applied to the back of the frame and fitted in the rabbeted portion thereof, a backing strip extending across the opening of the frame and engaging the back of the sign plate to reinforce the same, the ends of the backing strip being received in the rabbeted portion of the frame, retaining strips fitted in the rabbeted portion of the frame, and fastening members securing the retaining strips and backing strip in position, the said retaining strips and backing strip being substantially flush with the back of the frame.

1,421,023. CAR-ENUMERATING DEVICE. MILLS S. PHILLIPS, Tacoma, Wash. Filed Aug. 15, 1919. Serial No. 317,765. 1 Claim. (Cl. 246—248.)

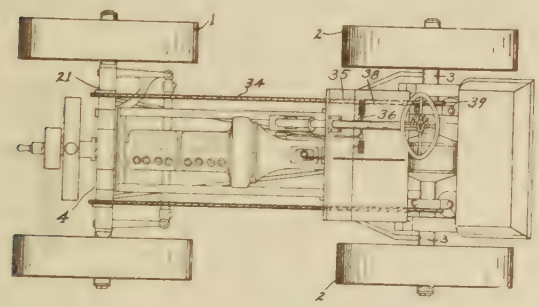
An electrical contact maker comprising in combination with a car rail, of a shaft extending transversely thereof and having a lever arm on one end carrying a rocking roller adapted to be engaged by the flange of a car wheel

to rock said shaft in the direction of movement of said car wheel, a contact roller carried by said shaft pivoted eccentric thereto, contact members arranged on each side of said contact roller and spring means secured to the



contact roller eccentric and pivoted above and in a vertical plane passing through the shaft controlling said shaft to maintain said rocking roller in a normally elevated position.

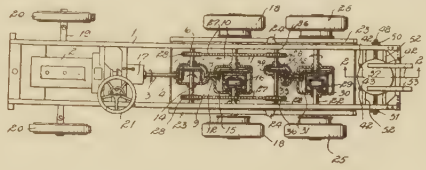
1,421,024. DRIVE FOR STEERABLE TRACTOR WHEELS. JOHN H. PIFER, Larimore, N. Dak. Filed Sept. 26, 1921. Serial No. 503,992. 1 Claim. (Cl. 180—44.)



In a drive for steerable tractor wheels, the combination of a sprocket wheel having its center bored out on one side to an annular flange, two similar yokes bolted to said flange, each of said yokes having a socket therein, a cross head having trunnion pins journaled, one in each of said yokes, a fork headed shaft having a pin joining the fork thereof to said cross head, forming with said yokes, a universal joint, both of whose axes lie in the plane of said sprocket wheel, a sleeve keyed to said shaft and having a dog thereon, a second sprocket wheel journalled on said sleeve and having a pin thereon adapted to drive said dog from either direction, but having free rotative movement therewith throughout substantially 345 degrees.

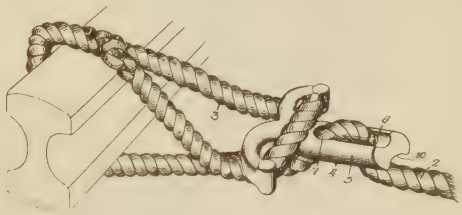
1,421,025. DRIVING DEVICE FOR AUTOMOBILES, RAILWAY MOTOR CARS, AND LOCOMOTIVES. RICHARD W. PRATT, St. Louis, Mo. Filed Feb. 25, 1922. Serial No. 539,094. 1 Claim. (Cl. 180—22.)

A driving mechanism, composed of a main frame; a motor mounted at the forward portion of said main frame and having a driving-shaft extending a distance rearwardly; a forward sprocket-wheel shaft having a bevel-gear and a sprocket-wheel fixed thereon; a pinion on the rear end of said driving-shaft meshing with the teeth of said bevel-gear carried by said forward sprocket-wheel shaft; a rear sprocket-wheel shaft also having a bevel-gear and a sprocket-wheel fixed thereon; a sprocket-chain connecting the said sprocket-wheel of said front sprocket-wheel shaft with the said sprocket-wheel that is carried by said rear sprocket-wheel shaft; an underframe located beneath said main frame; brackets which connect said underframe to the said main frame; forward and rear driving-axles carried by the said underframe; four traction-wheels mounted on the said driving-axles; a differential-gear on said forward driving-axle; a differential-gear on said rear driving-axle; driving-means connecting said bevel-gear of said forward



sprocket-wheel shaft to the differential-gear of said forward driving-axle, to drive the latter; driving-means connecting the bevel-gear of the said rear sprocket-wheel shaft to the differential-gear of the said rear driving axle, to drive the latter; and suitable housings for said two differentials and said bevel-gears and driving-means; whereby a four-wheel drive will be provided for the said main frame of the automobile, truck, railway motor-car, bus, or locomotive.

1,421,026. TOWROPE. ALBERT LEE REGAN, Xenia, Ohio, assignor to The Hooven & Allison Company, Xenia, Ohio, a Corporation of Ohio. Filed Aug. 10, 1921. Serial No. 491,153. 2 Claims. (Cl. 24—129.)

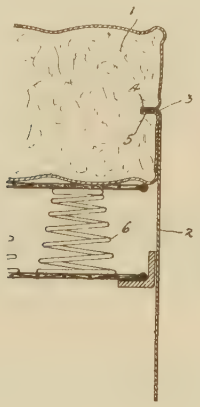


1. In a tow rope, a cleat comprising two oppositely disposed, laterally extending curved hooks, a shank integral with said hooks, and having a pair of longitudinally spaced apertures therethrough, and a rope having an intermediate portion threaded through said apertures and provided with a looped end adapted to engage said hooks.

1,421,027. WRAPPER. RICHARD SAMUEL REYNOLDS, Louisville, Ky. Filed Feb. 28, 1921. Serial No. 448,585. 4 Claims. (Cl. 229—87.)

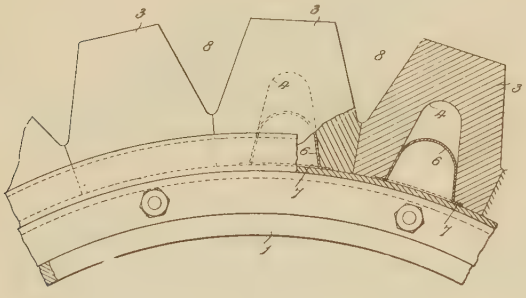
2. A composite wrapper consisting of a sheet of foil overlying and adhering to a sheet of paper that is completely coated with an adhesive material having the property of softening under heat, said coated paper sheet having an exposed marginal zone extending beyond the foil whereby in wrapping packages portions of the paper layer of the composite wrapper may be brought into lapped contact and sealed by heat and pressure.

1,421,028. MATTRESS. WALTER J. RIMMINGTON, Winnipeg, Manitoba, Canada. Filed July 30, 1920. Serial No. 399,974. 1 Claim. (Cl. 5—13.)



A mattress having vertical side and end walls, a valance secured to the mattress at the sides and end intermediate of their depth and parallel with the bottom and top edges of the mattress, said valance being adapted to lie close to the vertical side and ends of the mattress and being of such depth as to extend an appreciable distance below the same.

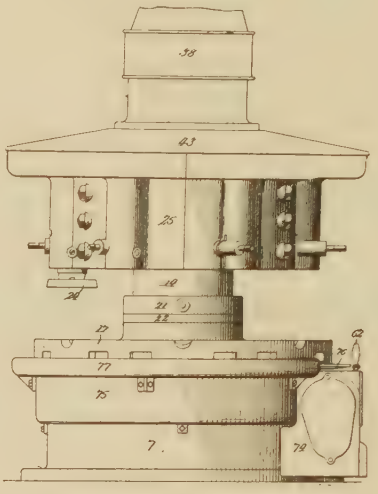
1,421,029. RESILIENT TIRE. ALLIOTT VERDON ROE, Bursledon, England. Filed Nov. 17, 1920. Serial No. 424,625. 3 Claims. (Cl. 152—9.)



3. A resilient tire, comprising, in combination with a rim, a plurality of resilient sections each having an approximately cone-shaped-air chamber opening inwardly at its base, said rim and sections having cooperating portions for retaining the sections on the rim, and metallic members, one for each resilient section, carried by the rim and extending within said air chambers, said members corresponding in shape with the air chambers but terminating short of the inner ends of said chambers, the side walls of said members and chambers being normally in contact thereby to produce a wedging action on the sections.

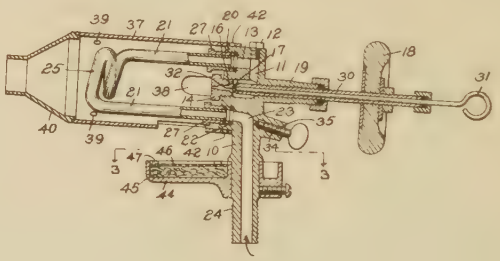
1,421,030. CIRCULAR MILLING MACHINE. HOWARD C. ROSE, Detroit, Mich., assignor to The Ingersoll Milling Machine Company, Rockford, Ill., a Corporation of Illinois. Filed June 16, 1917. Serial No. 175,170. 38 Claims. (Cl. 90—15.)

1. A circular milling machine comprising a work carrier and a tool carrier revolubly mounted and respectively equipped with a plurality of circumferentially arranged work holders and milling tools, and mechanism for continuously revolving the work and tool carriers and for



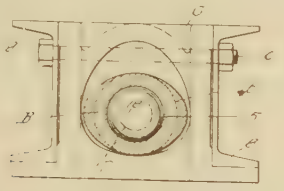
causing, by such revolving movement, a relative movement in the plane of rotation between the work and the tools.

1,421,031. BURNER FOR LIQUID HYDROCARBON FUEL. FRANCIS P. SCHMITT, Leetsdale, Pa., assignor to Peerblow Manufacturing Company, Leetsdale, Pa., a Corporation of Pennsylvania. Filed Mar. 18, 1920. Serial No. 366,839. 5 Claims. (Cl. 158—33.)



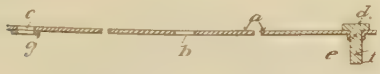
1. In a liquid fuel burner, the combination of a pre-heating tube adapted for connection to a source of fuel, a head having a passage therein communicating with said pre-heating tube, the tube being removably connected to said passage by connectors telescoping the tube ends and internally shouldered to engage external shoulders on the tube ends, a portion of said passage being at substantially a right angle thereto, a nozzle communicating with a portion of said passage which is substantially at a right angle to the pre-heating tube and arranged to direct the ignited fuel in proximity to the pre-heating tube, said head being provided with a valve seat in alignment with the nozzle, and a valve in alignment with the nozzle and engaging said valve seat, said valve being provided with an axial passage receiving a cleaning rod.

1,421,032. DRAWBAR. GEORGE N. SIMPSON, ARTHUR M. SIMPSON, and WALTER H. SIMPSON, Chicago, Ill. Filed Apr. 2, 1920. Serial No. 370,668. 7 Claims. (Cl. 213—42.)



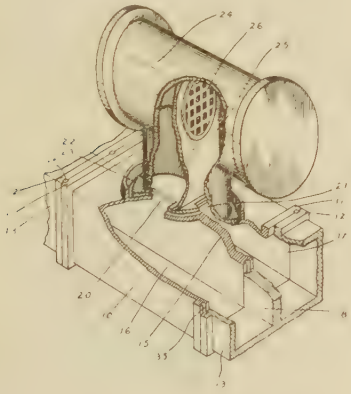
3. In a device of the character described, a draw-bar support, and a draw-bar swivelly mounted in the support, the shank of said draw-bar where supported in the sup port being substantially elliptical in cross section.

1,421,033. WAGON SEAL. ARDHENDU BHUSHAN SINHA, Muzaffarpur, British India. Filed Sept. 16, 1919. Serial No. 324,215. 2 Claims. (Cl. 292—314.)



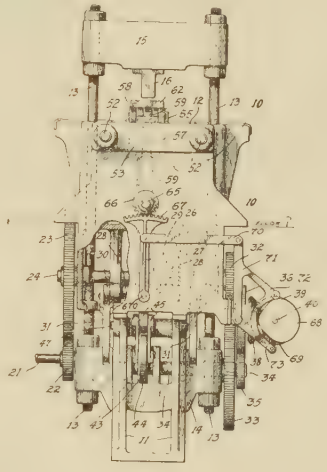
1. Seal for railway cars and the like comprising a strip of flexible material having holes, one provided at each end of the said strip and a third hole intermediate the ends and arranged to be brought in register with each other, a rivet of plastic material extending through one of the end-holes and adapted to pass through the other two holes to be thereafter formed into a seal, and a washer of soft metal attached to the other end of the strip surrounding the hole at that end so as to receive the pressure of the seal.

1,421,034. MANIFOLD. HARRY F. SMITH, Dayton, Ohio, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio, a Corporation of Ohio. Filed Oct. 11, 1920. Serial No. 415,965. 4 Claims. (Cl. 183—43.)



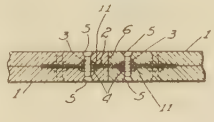
1. In gas purifying apparatus of the character described, the combination with a drum, having a base member, a dividing partition therein, constructed to receive a pervious diaphragm, and a plurality of ports within the base member thereof, one upon each side of the dividing partition; of a fitting adapted to receive the base member of the drum, and having ports therein, adapted to cooperate with the ports within the base member of the drum, a partition within said fitting, dividing it into two passages, each of the ports within the fitting opening into one of the said passages, the construction being such that when the ports in the base member of the drum register with the ports in the fitting, one end of the drum, upon one side of the dividing partition therein is connected to one of the passages with the fitting, while the other end of the drum, upon the other side of the partition therein, is connected to the other of the passages within the fitting; means carried by the fitting and constructed to receive other means adapted for co-operation with the base member of the drum for holding the drum in position; means at each end of the fitting for joining it to a cooperating fitting or section of manifold, and means for preventing leakage at the place of jointure from one of the passages in the fitting to the other.

1,421,035. DRAWING AND LAPPING PRESS. REUBEN STANLEY SMITH and HENRY MILLER, Milwaukee, Wis., assignors to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Aug. 14, 1920. Serial No. 403,575. 13 Claims. (Cl. 153—23.)



1. A press comprising a punch for drawing a blank into shape as a cross bar, a lapping mechanism comprising dies for successively acting upon each of the projecting ends of the blank to first bend and then flatten said ends to form fastening ears upon the cross bar, and means for so actuating the said dies.

1,421,036. BELT SPLICE. FRANK F. SNYDER, Torrance, Calif. Filed Nov. 23, 1921. Serial No. 517,324. 2 Claims. (Cl. 24—31.)

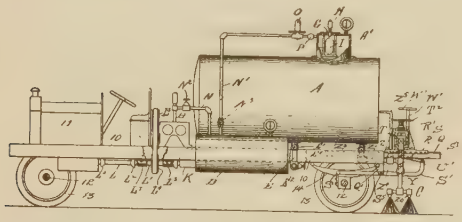


1. In a belt of the class described, a belt-splice with two fitted ends joined together, in combination with a plate spliced between the two ends of the said belt, pins positioned through the said two fitted ends of the belt and the plate, riveted heads integral with both outer ends of the said pins flush with the outer surface of the belt, eyelets postioned in the said plate and extending into the said belt-splice adapted to receive the said pins, as set forth.

1,421,037. PIN. GLEN G. SPECK, Portland, Oreg. Filed Nov. 4, 1921. Serial No. 512,827. 6 Claims. (Cl. 24—150.)

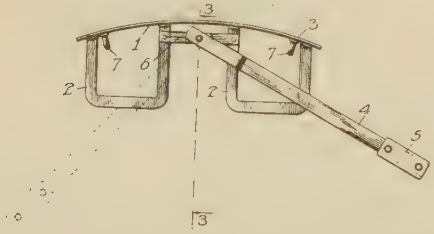
1. A pin comprising a shank having its rear portion provided with a head flattened on one side, and an anchoring device formed on said shank.

1,421,038. SPRAYER. JAMES M. STOCKER, Atlanta, Ga. Filed Aug. 26, 1919. Serial No. 319,944. 11 Claims. (Cl. 299—34.)



1. In combination, a truck carrying a tank yieldingly mounted relative to the wheels of said truck, a sprayer connected with said tank, and automatic means for positioning said sprayer as the said tank rises or falls.

1,421,039. SAFETY APPLIANCE. LAWRENCE GORDON SWENINGSTON, Chicago, Ill., assignor of one-half to Peter E. Rea, Chicago, Ill. Filed May 6, 1921. Serial No. 467,423. 5 Claims. (Cl. 45—105.)

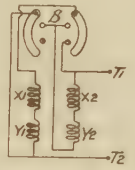


1. A guard for the purpose specified, comprising a guard proper made of suitable sheet material, and means adapted for mounting said guard proper upon a supporting surface without fixed attachment thereto, said means comprising a weighted arm secured to said guard at approximately the center thereof and adapted to rest in contact with the surface upon which said guard is mounted, substantially as described.

1,421,040. ROOF. GEORGE E. SWENSON, Philadelphia, Pa., assignor to The Barrett Company, a Corporation of New Jersey. Filed July 30, 1918. Serial No. 247,356. 7 Claims. (Cl. 108—7.)

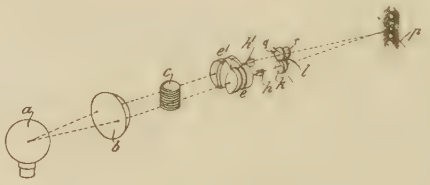
1. In a roof of the class described, in combination, a cleat, a strip of roofing material, said strip having crushed stone applied to one side leaving a selvage edge, said selvage edge lying under said cleat and the portion of the strip adjacent said selvage edge lying over said cleat with the stone covered side uppermost.

1,421,041. VARIOMETER. JOHN SEALY EDWARD TOWNSEND, Oxford, England. Filed Aug. 22, 1921. Serial No. 494,263. 7 Claims. (Cl. 171—242.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



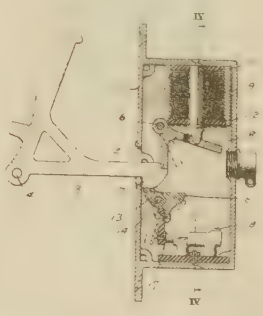
1. In a variometer, the combination of two fixed coils, two movable coils, one of the fixed coils being connected to one of the movable coils to form one pair of coils, the other fixed coil being connected to the other movable coil to form another pair of coils, the self induction of the one pair being equal to that of the other pair, and a switch adapted to connect the two pairs in series or in parallel.

1,421,042. PROJECTION APPARATUS FOR GAUGING ARTICLES. FRANK TWYMAN, London, England, assignor to Adam Hilger, Limited, London, England. Filed Mar. 19, 1921. Serial No. 453,583. 9 Claims. (Cl. 88—24.)



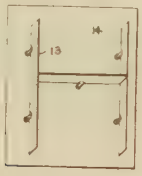
1. In projection apparatus for gauging articles, a source of light, two lenses so located that part of the beam of light passes through each lens, two prisms one adjacent to each lens, and other prisms each of which is movably mounted to be placed in and out of the path of the beam passing through either lens and its prism.

1,421,043. SAFETY LOCK FOR ELEVATOR DOORS. BURTON C. VAN EMON, San Francisco, and WILFRED A. WOLF, Alameda, Calif. Filed Oct. 25, 1920. Serial No. 419,505. 3 Claims. (Cl. 187—31.)



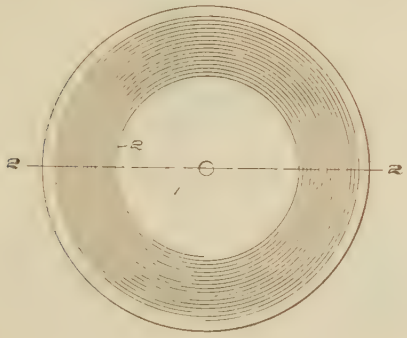
3. An electrically operated device for locking a latch to a lock housing comprising an electromagnet secured to said housing, a latch, a guard for said latch, a lever normally locking said latch to said lock housing and adapted to release said latch when said magnet is energized, means for energizing said magnet and means for automatically reducing the energy in said magnet to a quantity sufficient to hold said lever in inoperative position.

1,421,044. SIGN. ERNEST P. VINCENT, New York, N. Y. Filed Apr. 20, 1917. Serial No. 163,368. Renewed Apr. 27, 1922. Serial No. 557,034. 7 Claims. (Cl. 40—130.)



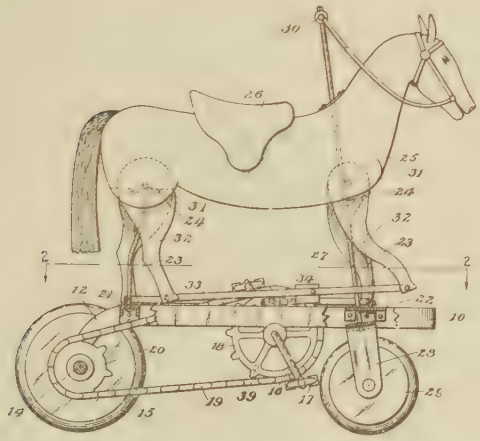
1. A sign having a character projecting from the base thereof, said character of substantially flat material substantially at right angles to said base.

1,421,045. PROCESS FOR RECORDING SOUND RECORDS. HENRY L. WADSWORTH, Lexington, Mass., assignor to Metal Recording Disc Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 13, 1918. Serial No. 222,226. 33 Claims. (Cl. 274—42.)



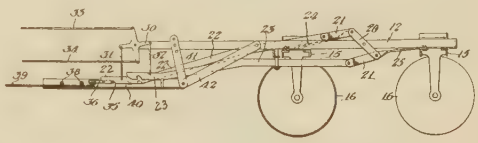
1. An original record tablet comprising a metallic base with a wax-like film thereon, and a reproducible record groove scratched in the metal.

1,421,046. CHILD'S VEHICLE. JOHN ANDREW WALSBURGER, Louisville, Ky. Filed Oct. 12, 1921. Serial No. 507,164. 2 Claims. (Cl. 208—42.)



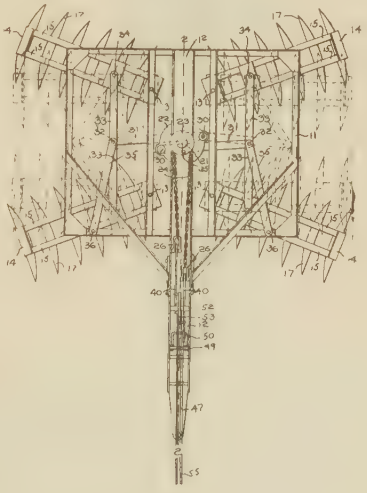
1. In a vehicle of the class described, a frame consisting of a single strip of metal bent to substantial U-shape and having its arcuate end disposed forwardly, an axle journalled in the rear ends of said frame, wheels on said axle, cross members connecting the sides of the frame, standards projecting upwardly from said cross members, a seat simulating an animal's body mounted on said standards, a crank shaft journalled to said frame intermediate its ends, legs for the animal pivoted to the body, links each connecting the front and rear leg on one side of the animal, a sprocket wheel mounted on said crank shaft, a second sprocket wheel mounted on the axle, a chain connecting said sprockets, lugs fixed to said links intermediate their ends, and pins projecting from the first mentioned sprocket and engaging said lugs.

1,421,047. SHIFTING MECHANISM FOR DISK HARROWS. CLATON E. WARD, Oxnard, Calif., assignor to Brenneis Manufacturing Company, a Corporation of California. Filed Sept. 10, 1919. Serial No. 322,995. 5 Claims. (Cl. 55—83.)



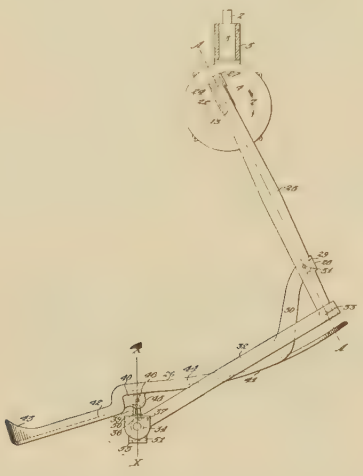
5. In a vehicle; a draft means by which said vehicle may be propelled; mechanism carried on said vehicle and so mounted that it may assume either of two positions; two hook bars; direct means by which a forward pull on one of said hook bars moves said mechanism in one direction; reverse means by which a forward pull on the other hook bar pulls said mechanism in the opposite direction; and means for attaching either hook bar to said draft means.

1,421,048. TANDEM DISK HARROW. CLATON E. WARD, Oxnard, and FORD W. HARRIS, Los Angeles, Calif., assignors to Brenneis Manufacturing Company, a Corporation of California. Filed Dec. 3, 1919. Serial No. 342,241. 10 Claims. (Cl. 55—83.)



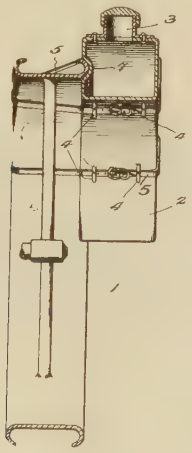
1. A cultivator comprising a front pair of implement gangs; a rear pair of implement gangs; a frame; means for pivoting the inner end of each gang to said frame; a draft device; a sheave wheel; means by which said draft device can be used to rotate said sheave wheel in either direction; and means by which said rotation of said sheave wheel throws said gangs to and from the operative position.

1,421,049. MECHANICAL MOTION. SIMON W. WARDWELL, Providence, R. I.; Carl V. J. Christensen, Edwin C. Smith, Arthur A. Armington, and Willard W. Bardsley executors of said Simon W. Wardwell, deceased. Filed Feb. 3, 1919. Serial No. 274,673. 9 Claims. (Cl. 74—20.)



1. In a mechanical-motion, the combination with a rotary crank, of a pitman connected at one end to the crank, means connected to the opposite end of the pitman to define its movement in a fixed path, and manually-operable means for reciprocating the pitman, said means adapted for compound movement to exert a lateral pressure on the pitman to carry the crank across "dead center."

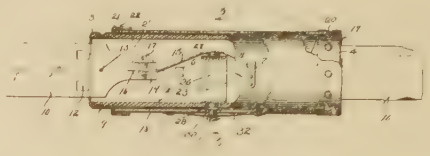
1,421,050. EMERGENCY TANK FOR AUTOMOBILES. WILLIAM L. WASHINGTON, East Youngstown, Ohio. Filed Feb. 18, 1921. Serial No. 446,139. 1 Claim. (Cl. 224—29.)



An emergency tank for automobiles comprising an arcuate body provided with an external groove in one side wall extending from end to end of the body, and means for securing the body to a support with the said groove engaging the edge of the support.

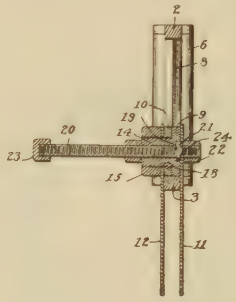
1,421,051. INDICATOR FOR RENEWABLE FUSES. MERLE J. WEST, Milwaukee, Wis., assignor to William D. Kyle, Milwaukee, Wis. Original application filed May 20, 1919, Serial No. 298,478. Divided and this application filed July 11, 1921. Serial No. 483,840. 2 Claims. (Cl. 200—121.)

1. A fuse comprising a casing having an opening in its wall, terminal contact members closing the opposite ends of said casing, a spring plate having its opposite ends secured to said casing, its intermediate portion being disposed across said opening, an indicator button carried by



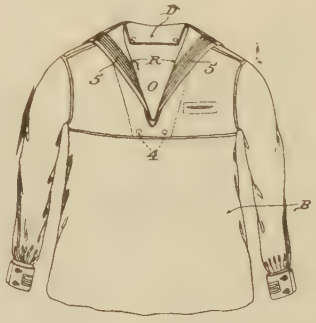
said intermediate portion of said plate and movable in said opening, a fusible link connecting said contact members, and means engaged with the button and the link when in operative condition.

1,421,052. DADO SAW. FRANKLIN E. WHITE, Union, N. Y. Filed Dec. 24, 1921. Serial No. 524,690. 4 Claims. (Cl. 145—31.)



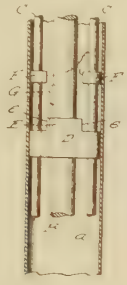
2. A dado saw comprising a saw frame provided with an opening and having beveled faces at opposite sides thereof, a clamp composed of sections having oppositely beveled heads fitting the beveled faces of the saw frames, one of the sections having a threaded shank extending through the other section, a clamping nut mounted on the threaded shank, a screw extending through the section having the shank and provided with a clamping nut, and saw blades located at opposite sides of the saw frame and having openings to receive the shank and the screw and clamped to the frame by the said nuts.

1,421,053. MIDDY BLOUSE. ALBERT G. WINCHESTER, Baltimore, Md., assignor to Crippen & Reid, Baltimore, Md., a Corporation of New York. Filed Sept. 13, 1919. Serial No. 323,588. 2 Claims. (Cl. 2—62.)



1. A removable collar for middy blouses comprising, in combination, a tail part adapted to lie flat on the back, a breast flap continuous from one lapel to the other adapted to lie flat under the front of the blouse, and lapels connecting said tail part and breast flap adapted to roll outwardly.

1,421,054. LOCKING MEANS FOR MOTOR VEHICLES. LEON B. WRIGHT, Lyndonville, N. Y. Filed Dec. 28, 1920. Serial No. 433,570. 11 Claims. (Cl. 70—90.)

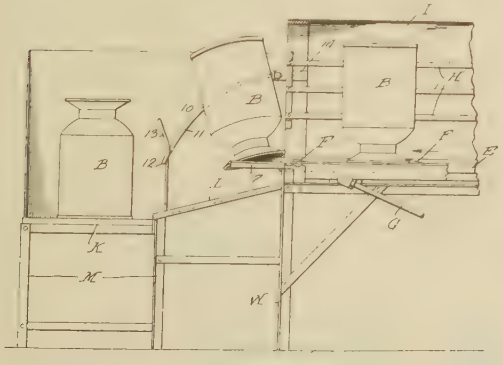


4. In a locking device for motor vehicles, the combination with a hollow steering column enclosing a steering post and a control rod, of a sliding block slidably mounted in said steering column and having an integral part forming a locking face engageable with a coacting locking face on a fixed part on said rod, and said post having a fixed key adapted to enter a slot in said sliding block to prevent the rotation of said post when said coacting locking faces are in engaging position.

1,421,055. WASHING MACHINE. CHARLES S. ADAMS, Buffalo, N. Y., assignor to Rice & Adams Corporation, Buffalo, N. Y. Filed Jan. 4, 1921. Serial No. 434,920. 8 Claims. (Cl. 141—7.)

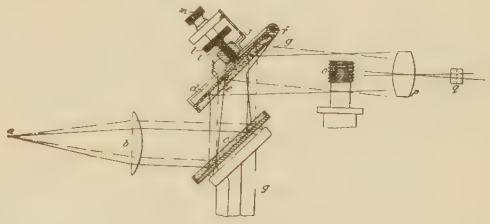
1. In a bottle washing machine in which cases of bottles are moved through said machine, the combination of jet devices which discharge cleansing media to the bottles in said cases, means for supporting the cases of bottles as they are moved through said machine over said jet devices, and means for supporting bottles which may project to abnormal positions from said cases to direct said bottles to said jet devices in positions to prevent said bottles from colliding with said jet devices.

1,421,056. CAN-INVERTING DEVICE FOR CAN-WASHING MACHINES AND THE LIKE. EDWARD ROY ALLING and FRANK F. WOLF, Buffalo, N. Y., assignors to Rice & Adams Corporation, Buffalo, N. Y. Filed Dec. 31, 1921. Serial No. 526,237. 8 Claims. (Cl. 193—43.)



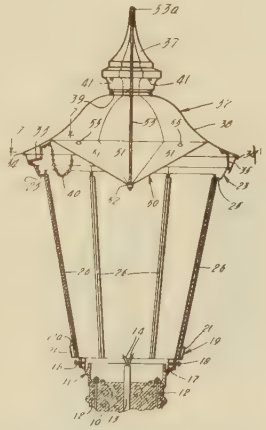
1. In a can washing machine having a track along which cans are moved on end through said machine, the combination of a transverse member, spaced from the discharge end of said track and adapted to support a can while in a recumbent position and to permit said can to turn thereon to an upright position, and downwardly and laterally curved guiding means for supporting the upper end of a can moving from said end of said track and guiding said can to a recumbent position on said transverse member.

1,421,057. PROJECTION APPARATUS FOR GAUGING SCREW THREADS. ARTHUR CLIVE BANFIELD, London, England, assignor to Adam Hilger, Limited, London, England. Filed Jan. 12, 1921. Serial No. 436,679. 3 Claims. (Cl. 88—24.)



1. In projection apparatus for gauging screw threads, a source of light, two pivotally mounted mirrors receiving light therefrom, means for supporting a screw in the path of the beams reflected from the mirrors, and means for simultaneously turning the mirrors through equal angular distances in opposite directions to deflect light along the screw threads on each side of the screw being gauged.

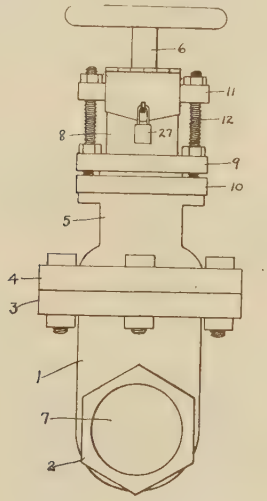
1,421,058. LANTERN CONSTRUCTION. HENRY BARKSCHAT, Los Angeles, Calif., assignor of one-half to Edmond B. Blinn, Los Angeles, Calif. Filed Mar. 1, 1920. Serial No. 362,529. 2 Claims. (Cl. 240—25.)



1. In a lantern of the character described, a base having an annular portion and a portion having a plurality of sides, a bracket adapted to carry the annular portion of said base, a frame having a plurality of sides, corner members extending between the corners formed by the adjacent sides of the frame and the corners of the polygonal portion of the base, each of said members being so shaped from a strip of sheet metal as to form grooves, transparent plates removably carried in adjacent grooves of said corner members and extending between the base and the frame, a top hinged to said frame, said top having a plurality of sides and an overhanging downwardly facing portion with ventilating holes in it, and a reflector mounted in said top, said reflector comprising triangular shaped portions the bases of which engage the inner sides of the top below said

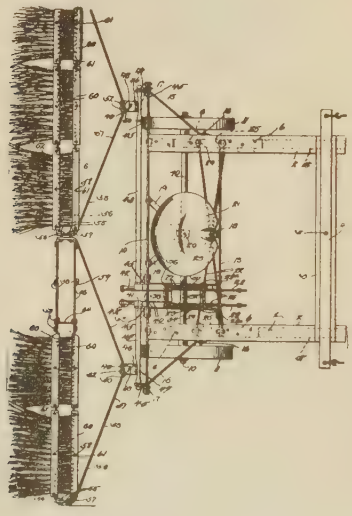
overhanging downwardly facing portion and the apexes of which join at a common point below the plane of the engagement of the bases with the top, the reflector having ventilating holes in it.

1,421,059. MEANS FOR LOCKING VALVES. SAMUEL F. BASHARA, Houston, Tex. Filed Aug. 21, 1920. Serial No. 405,016. 5 Claims. (Cl. 70—125.)



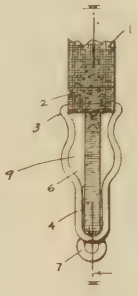
1. A locking means for gate valves comprising a pair of clamping jaws, means to secure the same firmly about the stem of the valve, clamping plates, fixed below said jaws, means to lock said clamping jaws to said plate, and prevent the further operations of said securing means.

1,421,060. SOIL OR TURF RENOVATING BRUSH HARROW. BASIL B. BROOK, Aberdeen, Wash. Filed June 8, 1921. Serial No. 475,895. 8 Claims. (Cl. 55—19.)



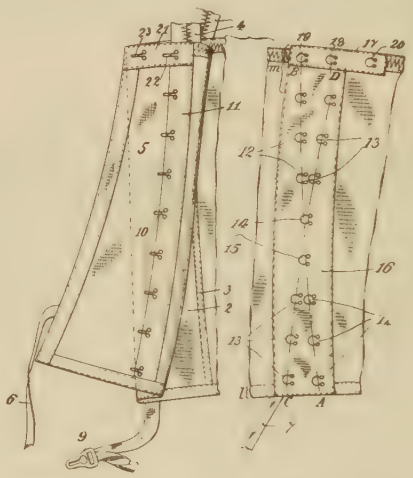
1. In a soil or turf renovating brush harrow, a frame, supporting wheels therefor, a harrow brush universally connected to said fame, and means for raising and lowering said brush.

1,421,061. HOSE-SUPPORTER CLASP. IDA BROWN, San Francisco, Calif. Filed Aug. 11, 1921. Serial No. 491,378. 3 Claims. (Cl. 24—245.)



1. A hose-supporter clasp, comprising a strip of material, an eye dependent from said strip and provided with a restricted channel, a loop dependent from said strip and a ring engaged by said loop and adapted to co-act with said eye and channel to hold a stocking fabric.

1,421,062. LADY'S APPAREL. LOUIS BRENNER, New York, N. Y. Filed Apr. 12, 1922. Serial No. 551,900. 6 Claims. (Cl. 2—73.)

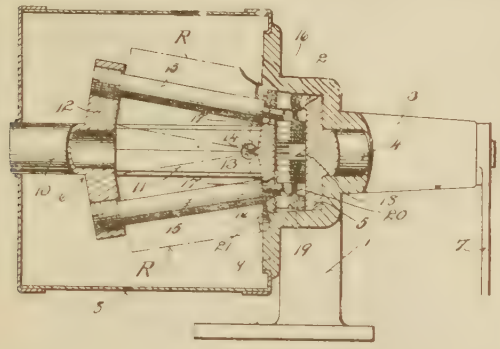


6. In a brassière, in combination, a band, a tape extending thereacross near one end thereof, a line of equidistant fasteners on said tape, a second tape extending across said band near the other end thereof, a line of equidistant complementary fasteners along said tape for coaction with said first fasteners, a line of auxiliary complementary fasteners diverging from a point intermediate the ends of said first line of complementary fasteners and extending to an end of said band, the corresponding individual fasteners on said tapes being spaced at equal distances along said lines, a cross tape element extending at right angles to said second tape and carrying two equidistant complementary fasteners and a second cross tape element near the upper end of said first tape carrying an auxiliary complementary fastener for coaction alternatively with one or the other fastener of the cross tape depending upon whether the line of fasteners are fastened upon the main or auxiliary set of complementary fasteners.

1,421,063. PENCIL SHARPENER. CHARLES A. BURDICK, Kenosha, Wis. Filed Mar. 22, 1920. Serial No. 367,836. 1 Claim. (Cl. 120—96.)

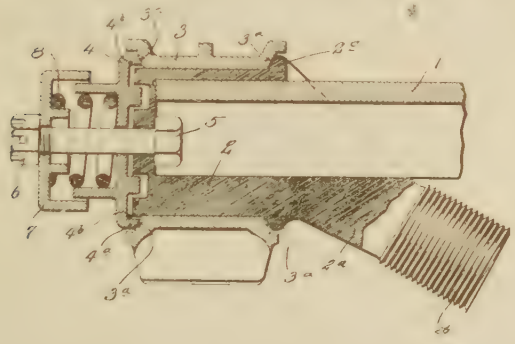
A device of the character described comprising a rotary frame, a pair of rotary cutting members carried by the

frame and having their shafts converging toward the axis of the frame, a pair of adjusting screws threaded into the frame transversely to the axis thereof and in the same



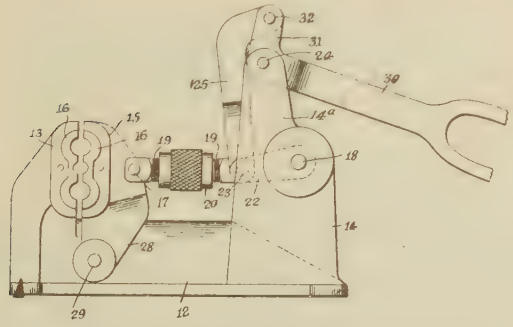
plane with the cutter shafts, circumferential grooves in said screws receiving the ends of the cutter shafts whereby the latter may be adjusted toward or away from the axis of the frame.

1,421,064. BRAKE BEAM. EDWIN G. BUSSE, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed July 21, 1921. Serial No. 486,544. 20 Claims. (Cl. 188—229.)



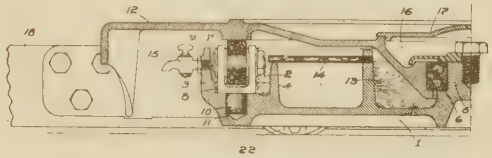
3. The combination with the trunnion of a brake beam, of a brake head mounted thereon, the barrel portion of said brake head having a beveled edge, and a yielding locking plate whose marginal edges cooperate therewith.

1,421,065. QUICK-ACTING PIPE VISE. FRANK J. CALLAN, deceased, late of Boston, Mass., by Arthur E. Reimer, executor, Boston, Mass., assignor to Herbert G. Butt, Winthrop, Mass. Filed Oct. 12, 1921. Serial No. 507,301. 3 Claims. (Cl. 81—17.)



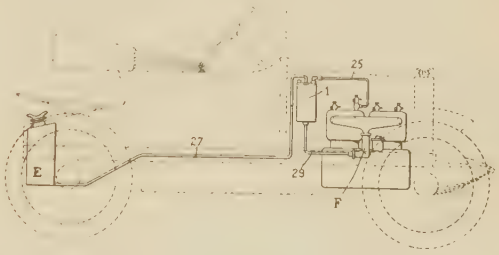
1. In a quick acting vise, in combination, an elongated base having a fixed jaw at one end and a fixed standard at the opposite end, a movable jaw between the fixed jaw and the standard, a toggle connected by an outer pivot with the movable jaw, and by an inner pivot with the standard, operating means for forcing the toggle to a position of rest with the jaws opened, and to an active position with the jaws closed, and a hinge connection between the movable jaw and the base whereby substantially frictionless movements of the jaw by the toggle are permitted, and freedom from liability of breakage is ensured.

1,421,066. TURNTABLE FOR AUTOMOBILES. FREDERICK F. CLARKE and EDWARD R. INMAN, Franklin, Pa. Filed Feb. 2, 1920. Serial No. 355,649. 8 Claims. (Cl. 104—44.)



1. In a turn table for automobiles, in combination, a portable base, lubricant containers in said base, one of which surrounds the pivotal point of said base, the other of said containers forming an annular concentric channel adjacent to the outer portion of said base, roller bearings of the ball-bearing type carried by said base within said containers, a turret revolubly mounted upon said base supported by said bearings, and automobile carriers carried by said turret.

1,421,067. VACUUM FUEL-FEED DEVICE. JOSEPH C. COULOMBE, Lowell, Mass. Filed Oct. 27, 1915. Serial No. 58,253. 20 Claims. (Cl. 158—36.)

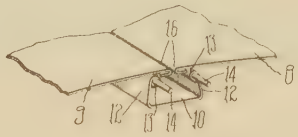


1. In a liquid feeding device, in combination a suction chamber, a distributing chamber, said suction chamber closed except for the connection with a source of suction and a source of liquid supply, said distributing chamber being always under atmospheric pressure, a valve opening between the two chambers, a valve controlling said valve opening, and a float controlling said valve dependent upon the rise and fall of level of fluid in the suction chamber, said valve controlling the flow of liquid from the suction chamber to the distributing chamber and controlling the reduction of suction in the suction chamber to permit said flow under gravity.

1,421,068. SUPPORTING BAR AND HINGE CONSTRUCTION FOR AUTOMOBILE HOODS. JOHN B. COVI, Far Rockaway, N. Y., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Apr. 15, 1920. Serial No. 374,217. 9 Claims. (Cl. 180—69.)

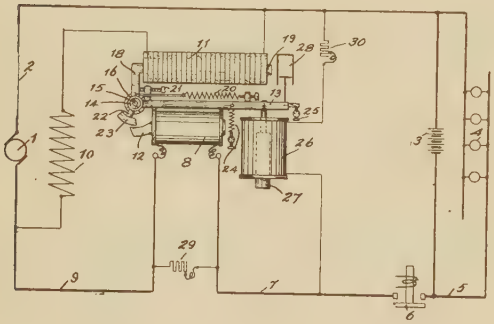
7. A hood construction comprising a pair of hood upper sections each formed of a single sheet of metal and the two having their meeting edges coming substantially together and then turned back and formed into spaced but aligned knuckles under the top of the hood.

and a single trough formed by a channel having its two edge portions turned over to form spaced but aligned knuckles, said knuckles of the hood upper sections and



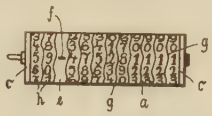
the trough edges adapted to interlock in alignment, and pintles threaded through the two lines of knuckles and supported independently of the hood sections and supporting the said trough.

1,421,069. ELECTRIC REGULATION. JOHN L. CREVELING, White Plains, N. Y., assignor to Gould Coupler Company, a Corporation of New York. Filed Nov. 1, 1916, Serial No. 128,823. Renewed Oct. 31, 1921. Serial No. 511,846. 13 Claims. (Cl. 171—229.)



12. The combination with a generator and a regulator therefor, of means for controlling the generator comprehending a coil affected by the operation of the generator for affecting said regulator and a second coil responsive to the operations of the generator for moving the first-named coil to affect said regulator.

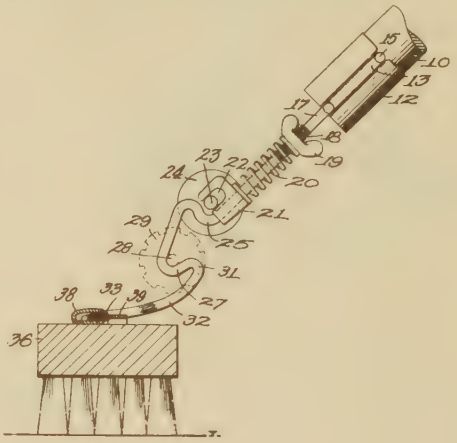
1,421,070. GOLF-STROKE COUNTER. ARTUR DEICHMANN, Cologne-Marienburg, Germany. Filed Apr. 16, 1921. Serial No. 462,074. 4 Claims. (Cl. 235—117.)



1. A golf stroke counter comprising a plurality of indicating discs arranged side by side, the faces of the discs having corrugations thereon, and means adapted to caunse the discs on rotation in either direction to snap automatcally into the positions of adjustment.

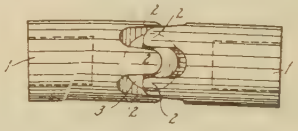
1,421,071. WRINGER MOP. WILFRED DUPRÉ, Worcester, Mass. Filed Feb. 24, 1920. Serial No. 360,769. 3 Claims. (Cl. 15—119.)

1. A device of the character described, comprising a mop frame formed of a single piece of wire and provided with a pair of opposite concave bends and convex projections adjacent thereto, both formed by curving the wire, the bends constituting bearings for a mop roll shaft, and the projections guarding against its displacement, a mop roll having a shaft carried in said



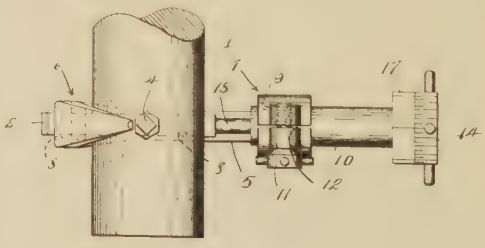
bearings, a pressure roll, and springs coiled on the frame for yieldingly forcing the pressure roll toward the mop roll and toward the centers of the concave bends.

1,421,072. UNIVERSAL JOINT AND METHOD OF MAKING THE SAME. MATTS L. EMET, Springfield, Mass. Filed Apr. 28, 1921. Serial No. 465,261. 3 Claims. (Cl. 64—91.)



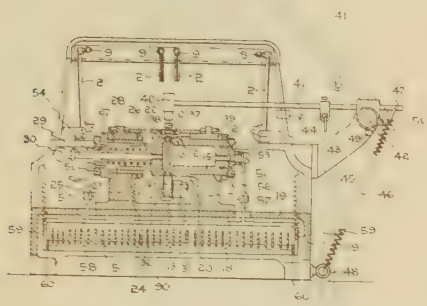
3. A method of making universal-joints consisting in assembling a pair of couplers which are recessed and provided with annealed interfitting fingers, each coupler with its fingers consisting of a single piece of stock, and a ball, the latter being between said fingers in the recesses in said couplers, in forcing the outer terminal portions of said fingers into confining relationship with said ball, and in hardening said fingers.

1,421,073. TOOL-ADJUSTING MICROMETER. GEORGE T. FURNESS and LLOYD R. SENN, Syracuse, N. Y. Filed Sept. 23, 1920. Serial No. 412,323. 4 Claims. (Cl. 33—185.)



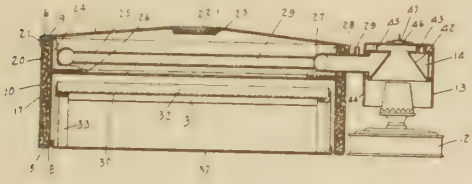
3. The combination with a tool post having means for holding a tool extending transversely thereof, of a gage member for setting the tool comprising a body for engaging the tool post, and micrometer means carried by the body and arranged to engage one end of the tool to move the same a predetermined distance transversely of the body, substantially as and for the purpose set forth.

1,421,074. MACHINE FOR INDENTING CHARACTERS ON METAL PLATES OR OTHER LIKE ARTICLES. CHARLES F. GAUNT, Birmingham, England. Filed Dec. 6, 1919. Serial No. 343,058. 20 Claims. (Cl. 197—6.6.)



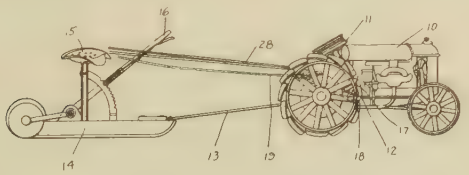
1. In a machine for indenting metal blanks the combination with blank gripping mechanism; of a fixed guide located in close proximity to the blank and consisting of a carrier of plate form having a central opening and a collar fitted with said opening, a plurality of punches each of which is movable to and from position within the collar and a hammer for striking each punch when in said position for the purpose set forth.

1,421,075. INCUBATOR. VERNON C. GETZ, Lebanon, Ind. Filed Feb. 6, 1920. Serial No. 356,678. 1 Claim. (Cl. 119—42.)



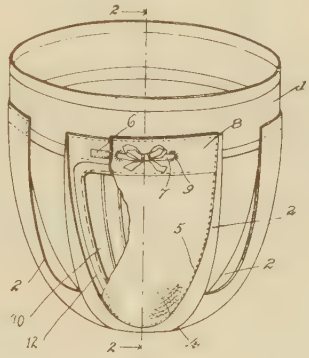
In an incubator the combination of a tubular insulated wall open at both ends, a detachable cover to be positioned upon said wall to close one end thereof, a detachable pan positioned in the bottom open end of said wall to close the same, a perforated egg supporting tray positioned within said wall and substantially filling the interior of said wall and supported intermediate the ends thereof, said tray being removable through the lower end of the wall, heating means positioned above the tray and adjacent the wall, and inwardly extending deflecting means beneath said heating means and above said tray to prevent the direct downward radiation of heat from the heating means upon the tray, said cover deflecting means and heating means being arranged to provide access to the egg tray through the top.

1,421,076. DRIVING ATTACHMENT FOR TRACTORS. DAYTON H. GILSON, Rushville, Ind. Filed July 22, 1921. Serial No. 486,793. 1 Claim. (Cl. 180—77.)



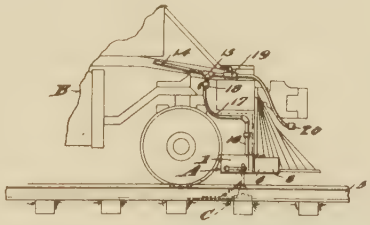
The combination of a steering wheel having a hand engageable rim for manual steering and a spider support, a detachable wheel in superposed relation to said steering wheel and having a flanged rim and a part depending from said flanged rim and adapted to engage the spider support, and means for securing the part to the spider support for rigidly securing the second mentioned wheel upon the steering wheel to form a pulley wheel with the flange and rim for remote manual control.

1,421,077. ABDOMINAL PROTECTOR. HUGO GOLDSMITH, Cincinnati, Ohio. Filed Nov. 13, 1919. Serial No. 337,678. 1 Claim. (Cl. 128—160.)



A supporter having an elastic structure comprising a waist band and leg loops depending therefrom, a removable, concave-pocket-forming, rigid insert piece, and fabric means mounted on the front of the elastic structure and forming a pocket extending upwardly from the crotch, in which pocket the insert is to be placed, said pocket being open at the top for introduction of the insert, and means to close the opening at the top of the pocket

1,421,078. AUTOMATIC TRAIN STOP. HOWARD C. GRAHAM, St. Joseph, Mo. Filed June 21, 1921. Serial No. 479,178. 5 Claims. Cl. 246—190.)

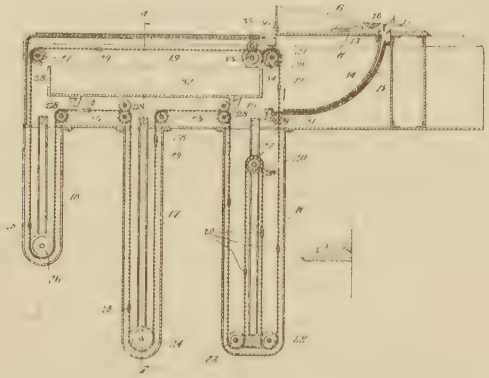


5. An automatic train stop including with a vehicle having air brake equipment, a valve on the vehicle by which the brakes are rendered operative, means by which the valve is protected against casual and accidental manipulation, and a track device to engage said means and actuate the valve to a brake setting operation.

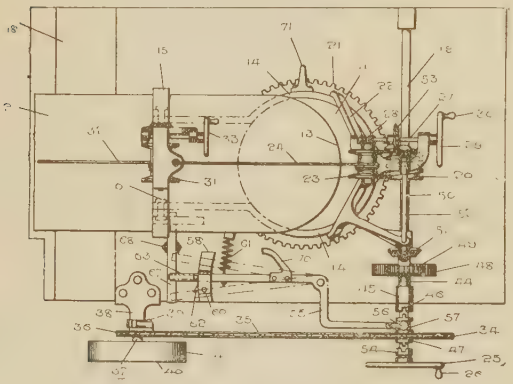
1,421,079. PHOTOGRAPHIC-DEVELOPING APPARATUS. JOHN S. GREENE, Rochester, N. Y., assignor to Photostat Corporation, Providence, R. I., a Corporation of Rhode Island. Filed May 20, 1921. Serial No. 471,092. 8 Claims. (Cl. 95—90.)

1. In a photographic developing apparatus, the combination with a tank, of a conveyor movable downwardly

into said tank, means for feeding prints to said conveyor from a relatively transverse direction and impaling devices on the conveyor adapted to catch and carry the prints.

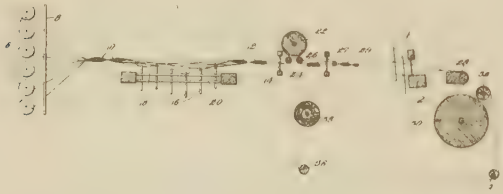


1,421,080. BLOWER-DISCHARGE-PIPE-OPERATING DEVICE. CHRISS GUNNING and ALFRED GUNNING, Lansford, N. Dak. Filed June 20, 1921. Serial No. 479,033. 6 Claims. (Cl. 302—9.)



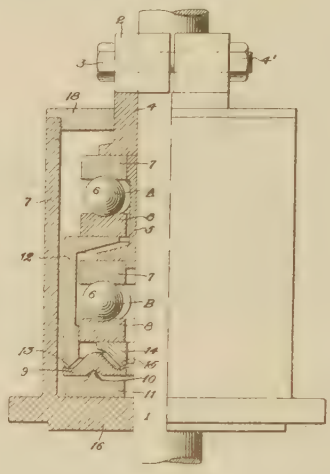
1. The combination with a blower and its discharge pipe movable upwardly and downwardly and around a vertical axis, of power-driven actuating means, and automatic means controlling said pipe to be operated by said actuating means and operable automatically in succession for raising said pipe and then turning it from inactive to delivery position.

1,421,081. LOOM FOR WEAVING CORD-TIRE FABRICS. FREDERICK C. HALL, Pawtucket, R. I., assignor to Jenckes Spinning Company, Pawtucket, R. I., a Corporation of Rhode Island. Filed Oct. 12, 1921. Serial No. 507,283. 8 Claims. (Cl. 139—61.)



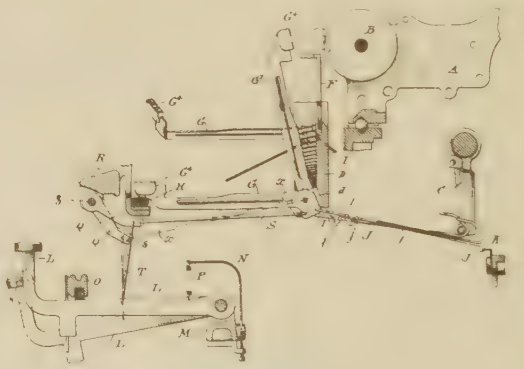
3. In a loom for weaving cord tire fabric the combination with the harness and lay of mechanisms for feeding in to the harness for each shed lengths of warp threads which progressively increase from the center of the fabric toward the edges, and for taking up a uniform length of fabric.

1,421,082. THRUST BEARING. SAMUEL N. HALL, Los Angeles, Calif. Filed Aug. 16, 1920. Serial No. 403,919. 4 Claims. (Cl. 64—49.)



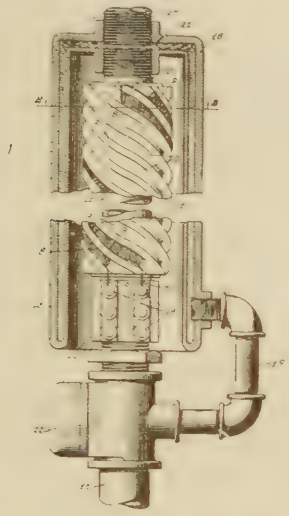
2. In a thrust device for a revolving shaft comprising a support and means for transmitting the thrust load from a plurality of bearings to the support and equalizing the load between the bearings, the combination with the shaft of a thrust collar thereon secured against movement in a direction counter to the shaft thrust, a bearing around the shaft against said collar, a thrust sleeve around the shaft against said collar within the aforesaid bearing, and another bearing around the shaft against said sleeve.

1,421,083. TYPEWRITING MACHINE. EDWARD B. HESS, New York, and GEORGE F. HANDLEY, Glendale, N. Y., assignors to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 13, 1921. Serial No. 500,334. 7 Claims. (Cl. 197—30.)



1. In a typewriting machine a series of type bars having their pivots disposed in the same vertical plane and a series of key levers link-connected with the type bars, some of said links being connected with the type bars at chosen points in the middle of the series and other type bars, on opposite sides of the middle ones, being connected with the links at points in rear of the link-connections at the middle of the series and each of said type bars being moved by the depression of its associated key lever to substantially the same predetermined position in front of the platen and at a considerable distance therefrom, the further movement of each of said type bars from said predetermined position to the platen being caused by its momentum.

1,421,084. ELECTRIC HEATING CORE. WILLIAM WESLEY HICKS, San Francisco, Calif. Filed Aug. 16, 1920. Serial No. 403,942. 3 Claims. (Cl. 219—39.)



1. In an electric heater, a heating element comprising a refractory core; and a plurality of multiple circuit resistance coils separately wound in parallel spirals thereon to prevent induction, both terminals of all coils being independently connected at the same end of said core.

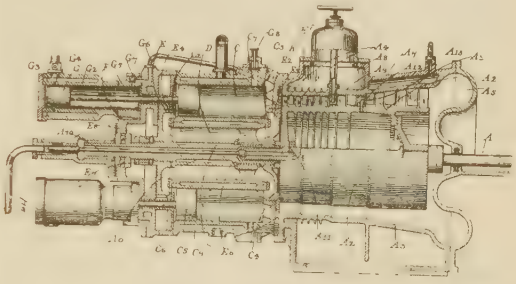
1,421,085. PENDANT SWITCH. DAVID HJORTH, New York, N. Y., assignor to The General Machine & Manufacturing Co., Bridgeport, Conn., a Corporation of Connecticut. Filed Apr. 28, 1921. Serial No. 465,124. 4 Claims. (Cl. 200—67.)

1. In a pendant switch of the class described, the combination of a housing, a slide mounted in the housing and having a push button attached thereto, a rocker member pivotally attached to the housing, an armature also pivoted to the housing, a flexible connection between the rocker member and armature whereby the latter is thrown backward and forward by the rocker movement of the latter, a double acting pawl for engaging and operating the rocker member, a link one end of which is connected to the slide and the other end to the pawl, and whereby the pawl is carried with the slide, and a spring for returning the pawl and slide to their normal position.

1,421,086. FLOORING MATERIAL AND PROCESS FOR MAKING SAME. RICHARD JESCHKE, Charlottenburg, Germany, assignor to Phenoleum G. m. b. H., Berlin, Germany, a Firm. Filed July 9, 1920. Serial No. 395,181. 9 Claims. (Cl. 106—7.)

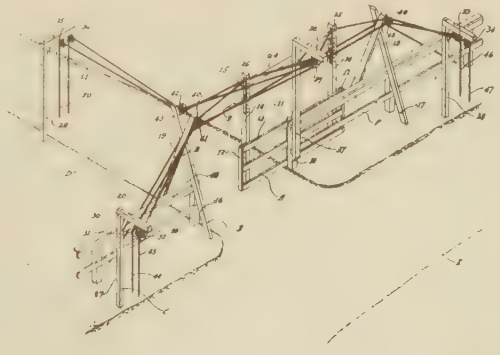
1. The process of manufacturing linoleum-like material, which process consists in mixing the following two ingredients, viz the product obtained by heating glycerin with an organic compound, capable of forming a rubber-like product by acting on glycerin, for producing therewith a rubber like product, and an artificial resin obtained by condensing a phenol with formaldehyde by means of an alkaline condensing agent, heating the mixture until a tough mass is formed, adding a filling agent, and kneading and rolling the mixture thus obtained.

1,421,087. INTERNAL-COMBUSTION TURBINE. HERBERT STONE JOHNSON, Nuneaton, England. Filed Mar. 9, 1920. Serial No. 364,432. 6 Claims. (Cl. 60—42.)



1. In an internal combustion turbine, a plurality of cylinders each having a combustion chamber communicating with a fluid delivery nozzle of said turbine and spaced around the end wall of its casing with their axes parallel to the rotational axis of said turbine, pistons adapted to move reciprocally in each of said cylinders, pump chambers in each cylinder constituted by the ends remote from the combustion chambers, passages connecting said pump chambers with a mixture-supply source and with the combustion chambers, rotating valves at each end of the cylinders co-axially mounted in reference to the turbine shaft and operatively connected to it and controlling said passages, those at the pump ends alternately connecting the pumps with the mixture-supply source and with the passage to the combustion chamber; those at the other ends alternately connecting the combustion chambers with the aforesaid passages from the pump ends and controlling also the discharge from the combustion chamber into the turbine nozzles, and resiliently-yielding thrust members operatively connected to each piston aforesaid, substantially as set forth.

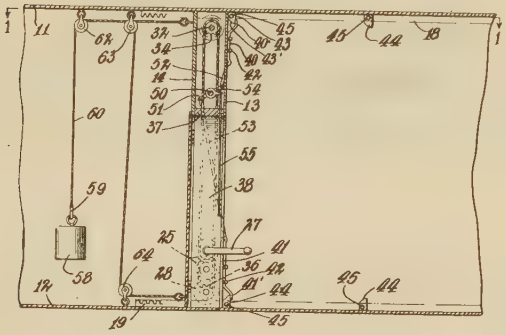
1,421,088. GATE OPENING AND CLOSING MECHANISM. LORENZO JOHNSON, Ririe, Idaho. Filed June 16, 1921. Serial No. 478,067. 4 Claims. (Cl. 39—65.)



1. In a device for opening and closing gates at points remote from the gate, a sliding gate, means for supporting the gate, supporting standards arranged on

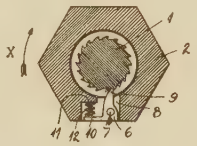
each side of the gate laterally thereof, and a supporting standard arranged rearwardly of the gate, a pair of pulleys carried by each one of the standards, an intermediate supporting post disposed between the supporting standards arranged laterally of the gate having a triple block secured thereto, and opening and closing cables carried by each of the supporting standards and trained over the pulleys carried by said standards, certain of said pulleys being extended directly to the ends of the gates, while others have their intermediate portions trained around the triple block carried by the intermediate support.

1,421,089. ADJUSTABLE PARTITION WALL. MICHAEL KOTUN, New Geneva, Pa. Filed Dec. 15, 1920. Serial No. 430,849. 2 Claims. (Cl. 189—34.)



2. A device of the class described, comprising a wall, mechanical means for moving said wall horizontally in one direction, a weight for moving said wall in an opposite direction, and slidable bolts carried by said wall and engaging fixed elements to hold said wall against the action of said weight.

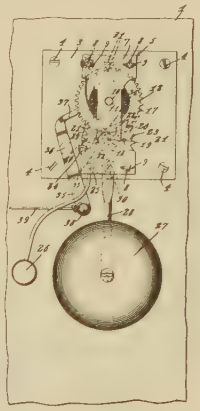
1,421,090. SAFETY NUT. GUSTAV LAURITS LARSON, Lyngdal, near Farsund, Norway. Filed Mar. 1, 1921. Serial No. 448,786. 2 Claims. (Cl. 151—12.)



1. A device of the character described comprising a bolt having screw threads, teeth formed at the bottom of said threads having slotted points, a nut fitted on the screw thread of the bolt, and a pivoted locking member carried by the nut engageable with the teeth to prevent retrograde rotation of the nut, the slotted portions of said teeth facilitating movement of the locking member thereover during retrograde movement of the nut.

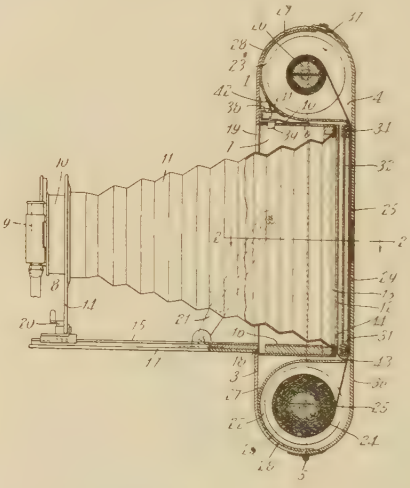
1,421,091. DOORBELL AND BURGLAR ALARM. GEORGE LATCHEM, Marked Tree, Ark. Filed Dec. 23, 1921. Serial No. 524,464. 4 Claims. (Cl. 116—162.)

3. In a device of the class described, a striker; a driving train operating the striker and including a stop wheel having long teeth and short teeth; a latch having a shoulder adapted to cooperate with the long teeth and provided with a shoulder adapted to cooperate with all of the teeth; an adjusting member coacting with the latch to position either shoulder for engagement with the proper teeth, and coacting with the latch to hold the



latch completely out of engagement with the stop wheel; and means under the control of an operator for disengaging the latch from the stop wheel.

1,421,092. CAMERA. EDWIN E. MANTER, Auburndale, Mass. Filed Nov. 19, 1920. Serial No. 425,099. 6 Claims. (Cl. 95—32.)



1. A camera embodying therein a casing divided into front and rear sections hinged together at one end thereof, means to lock said sections together at the other end thereof, means to force said sections apart at one end thereof when said sections are unlocked, light projecting instrumentalities mounted upon said front section, said rear section constituting a film compartment and being provided with an opening across which a film is adapted to be fed and through which light may be projected by said light projecting instrumentalities and a slide adapted to close said opening and thereby prevent light from entering said film compartment when said casing is opened upon said hinge.

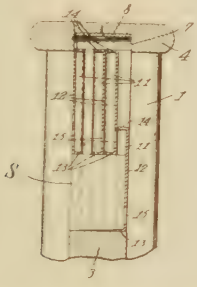
1,421,093. FLASH LIGHT. LESLIE C. MATSON, Dunbarton, Wis. Filed June 17, 1921. Serial No. 478,359. 4 Claims. (Cl. 240—8.5.)

1. In a flashlight the combination with a shell, and a battery insertible into the shell from either end, of separate similar conductive illuminating units detachably

engaging and within each end of the shell for holding the battery in position and in operating relation with the units, each unit including spaced conductive disks, an insulating disk therebetween, a reflector carried by one of the conductive disks, a lamp carried by the reflector,

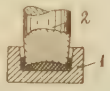
and a battery engaging contact carried by the other conductive disk, and a switch member movably mounted on the shell and normally engaging the insulating disks of the units, said member being shiftable in either of two directions to engage one conductive disk of each unit to place one of the lamps in circuit with the battery.

1,421,094. WASHBOARD. ROBERT H. MILLER, Scranton, Pa., assignor to George W. Shoemaker, Dalton, Pa. Filed Jan. 12, 1921, Serial No. 436,726. Renewed Dec. 1, 1921. Serial No. 519,252. 4 Claims. (Cl. 68—29.)



1. The combination with a washboard having a rubbing surface, there being an opening above said surface for the reception of a cake of soap, of combined backing and clamping plates slidably mounted within the opening, and yielding means for pressing the plates against an inserted cake when the plates are moved out of normal position.

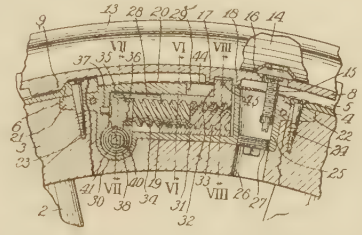
1,421,095. MANUFACTURE OF ARTICLES OF HORNY MATERIAL. ERCOLE NORZI, Turin, Italy, assignor to Società Anonima "Aclastite," Vercelli, Italy, a Company of Italy. Filed Mar. 30, 1921. Serial No. 456,976. 4 Claims. (Cl. 18—16.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In the manufacture of articles of horny material by compression under heat, an apparatus comprising a matrix and a patrix adapted to be forced against each other, said matrix and patrix having cooperating means for shaping therebetween a piece of material, which means comprise a recess, and cooperating surfaces which surround said recess, said surfaces providing a room for a piece of material having larger area and reduced thickness than the article to be obtained, and the material enclosed between said surfaces being forced into said recess when said members are forced towards each other.

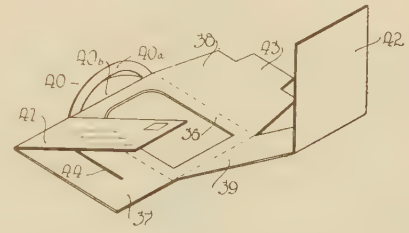
1,421,096. DEMOUNTABLE WHEEL RIM. KARL I. NUTTER, Martinsville, Ind. Filed July 22, 1921. Serial No. 486,726. 6 Claims. (Cl. 301—17.)

1. A wheel including a felly portion having a circumferential slot therein and also wedges on its periphery, a rim provided on its inner side with two abutments and also wedges to co-operate with the wedges on the felly portion, a head movably guided in the felly portion and



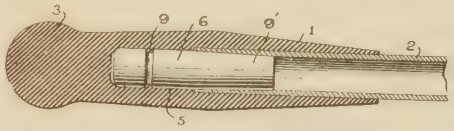
having a lug thereon extending through the slot to alternately engage the abutments, and means operable in the felly portion to move the head.

1,421,097. ENVELOP AND FRAME FOR PICTURES AND THE LIKE. WILLIAM PENTE, Chicago, Ill. Filed Apr. 18, 1918. Serial No. 229,235. 13 Claims. (Cl. 40—149.)



1. An envelop and frame for the transmission and display of pictures and the like, consisting of a single sheet cut and creased to provide a wall and a plurality of flaps, said sheet having a sight opening and a mailing card.

1,421,098. HANDLE GRIP. RAYMOND H. PHILLIPS, Trenton, N. J., assignor to Essex Rubber Company, Trenton, N. J., a Corporation of New Jersey. Filed Oct. 28, 1919. Serial No. 334,013. 5 Claims. (Cl. 208—126.)

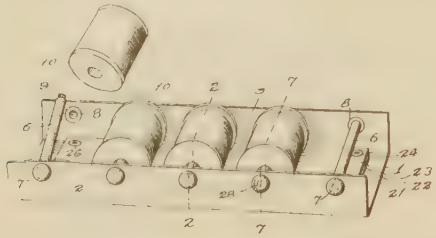


1. In a handle grip the combination of a gripping member of flexible material having an opening therein, a portion of said opening being adapted to receive a handle, and a reinforcing member also held in said opening and being provided with a tapered portion for engaging within said handle, said gripping member and said reinforcing member having interengaging annular rib and groove connection at a point intermediate the inner end of the opening and the handle receiving portion of the opening for forming a positive holding means between said members.

1,421,099. SPOOL AND NEEDLE CASE. SADIE ANNA REED, Long Beach, Calif. Filed Oct. 23, 1917. Serial No. 198,153. 5 Claims. (Cl. 242—139.)

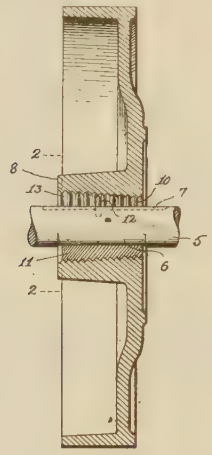
1. The combination with a spindle, of an end thrust snap-member adapted to engage with one end of said spindle, and a member adapted to accommodate a spool on said spindle; said spool accommodating member connecting the other end of said spindle with said snap member the socket member of said end thrust snap mem-

ber being open on the inner side of said spool accommodating member; said spindle being freely deflectable in any



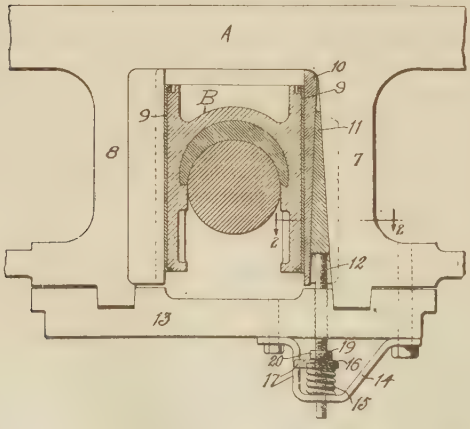
direction with relation to said snap member for the purpose set forth.

1,421,100. TIGHT PULLEY FOR LOOMS. EDWARD D. ROY and ELET W. HUDSON, Greenville, S. C. Filed Nov. 30, 1921. Serial No. 518,888. 3 Claims. (Cl. 287—52.)



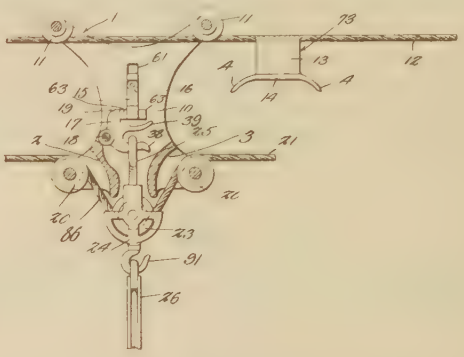
1. The method herein described of repairing tight-pulley fastenings consisting in anchoring upon the worn part of the shaft a plurality of externally-threaded segments, one of which is fitted down into the worn part of the shaft, and securing a pulley-hub over said segments to thus clamp them uniformly upon the shaft.

1,421,101. DRIVING BOX. LESLIE G. SAMPSON, Brooklyn, N. Y., assignor to Franklin Railway Supply Company, a Corporation of Delaware. Filed Nov. 26, 1919. Serial No. 340,858. 4 Claims. (Cl. 64—55.)



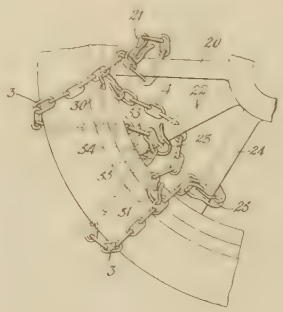
1. The combination with a frame and a driving box slidably mounted therein, of a wedge, and means for yieldingly pressing the wedge into engagement, said means comprising a spring, a nut for adjusting the spring, and means for locking the adjusting nut, said means constructed to cooperate with the spring and the nut to insure spring elasticity at all adjustments.

1,421,102. HAY CARRIER. GEORGE SCHEIHING, Burlington, Iowa. Filed Aug. 2, 1920. Serial No. 400,814. 1 Claim. (Cl. 212—104.)



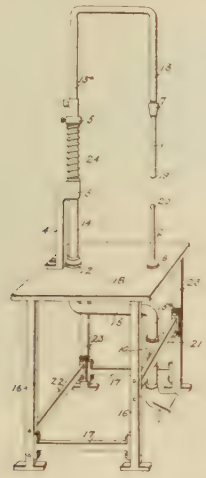
In a device of the class described, a carriage comprising laterally spaced side plates and transverse curved plates connecting the side plates with their curved faces arranged opposite each other and spaced apart, a keeper pivoted between the side blades above said curved plates and adapted to swing between said curved plates, said keeper including a lower finger, an intermediate finger and an upper lug, a latch slidably mounted on the side plates and cooperating with the lug to hold the lower finger of the keeper in approximately horizontal position, the lower finger engaging one curved plate, and the intermediate finger spanning the space between said curved plates when the latch is disengaged from the keeper lug, a rider, a flexible element slidable on the carriage and formed into a bight which supports the rider, the flexible element constituting means for elevating the rider to cause it to engage the intermediate finger, tilt the keeper, and cause the lower finger of the keeper to support the rider, and a trip cooperating with the latch to disengage the latch from the keeper.

1,421,103. ANTISKID DEVICE FOR VEHICLE WHEELS. CHARLES D. SCHMIDT, Jamaica, N. Y. Filed Nov. 25, 1918. Serial No. 264,042. 5 Claims. (Cl. 152—14.)



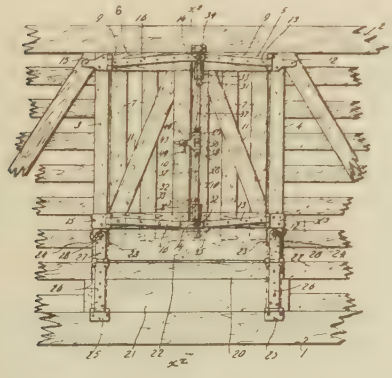
1. The combination with a vehicle wheel, of an antiskid device therefor comprising a single length of chain with a hook at each end and an intermediate tread portion between said hooks, the hook ends of said chain being connected to separate spokes of said wheel and the intermediate portion passing across the tread of said wheel.

1,421,104. REVERSING MACHINE. MAHLON A. SIDWELL, Los Angeles, Calif. Filed Dec. 14, 1920. Serial No. 430,793. 1 Claim. (Cl. 139—47.)



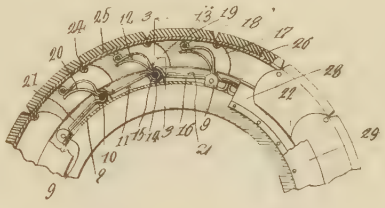
In a reversing machine for the purposes described, the combination with a supporting frame, including leg members and a table top mounted thereon, and a standard secured to and extended vertically from one end of the table top and including a vertically apertured bearing; a clamping post fixedly connected to and projected vertically above the table, a plunger frame which includes a vertical member slidably engaging the apertured bearing of the standard and movable through the table, an extension secured to the lower end of the said vertical member, the said extension including a foot lever equipped pendent member, a guide on the table supports in which the foot lever equipped pendent extension is slidably mounted, a spring device engaging the vertically slidable member and the apertured bearing in which the said bearing is mounted, whereby to normally force the said vertical member upwardly, when pressure on the foot lever is released, and an inverted U shaped frame adjustably attached to the said vertically shiftable member and a clamp member attached to the inverted U-shaped frame and supported for being brought down into contact with the stationary clamping member, when pressure is applied to the foot lever, whereby to clamp the article to be held between it and the said opposing fixedly held clamp.

1,421,105. STOCK-CAR DOOR. ROBERT LEE SMITH, Los Angeles, Calif. Filed July 11, 1921. Serial No. 483,864. 7 Claims. (Cl. 20—21.)



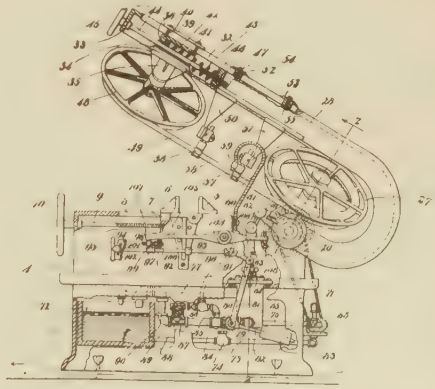
1. In a device of the class described, the combination with a stock car having a doorway, of a closure for the doorway comprising vertically hinged doors closing the upper portion of the doorway, said doors being constructed and arranged to act as extensions of the loading chute guide rails when swung open, and a horizontally hinged drop section closing the lower portion of the doorway and overlapping the doors and adapted when lowered to cooperate with a loading chute or dock to funtcion as a loading apron.

1,421,106. CUSHION TIRE. CHARLES OLIVER SNEDEKER, Bloomington, Ill. Filed July 16, 1920. Serial No. 396,646. 4 Claims. (Cl. 152—8.)



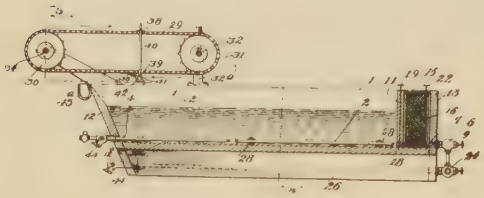
4. A tire of the class described comprising flexibly connected tread sections, flexibly connected links secured to the side edges of said tread sections, a rim encircling member, and springs arranged between said tread and rim members and connected with said rim member and with said links, said springs being composed of pairs of substantially V-shaped members arranged one within the other with journals at their apices, pintles connecting said journals to said rim member, a pintle connecting an arm of each outer spring member to the links on opposite sides of the tire, the other arm engaging the journal of an adjacent spring, the arms of the inner spring member being shorter than those of the outer and yieldably engaged therewith.

1,421,107. OPERATING DEVICE FOR CUTTING MACHINES. BYRON F. STOWELL, Springfield, Mass., assignor to Metal Saw and Machine Co. Inc., Springfield, Mass., a Corporation of Massachusetts. Filed Apr. 23, 1921. Serial No. 463,979. 17 Claims. (Cl. 29—68.)



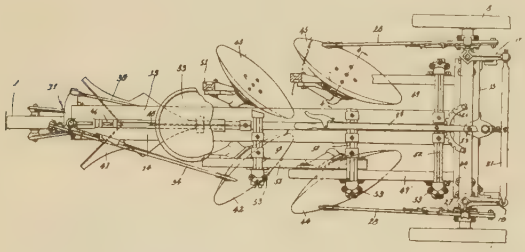
1. A material working machine having therein an implement for working on the material, means to support the implement, means to support the material, a reversible hydraulic motor acting on one of said supports to cause relative motion between the implement and the material in both directions, a valve for controlling said motor, and gravity actuated means normally tending to so actuate the valve as to bring the motor to rest.

1,421,108. SIRUP BOILING AND SKIMMING APPARATUS. BUEL TAYLOR, Odenville, Ala. Filed Jan. 3, 1919. Serial No. 269,502. 6 Claims. (Cl. 127—9.)



6. In a tank for manufacturing sirup, means to boil the sirup in one end of the tank, an endless chain traveling over the other end of the tank, sprocket wheels for the chain mounted above the tank, a floating skimmer blade having substantially the width of the tank, meas to hingedly swing said blade from said chain, and end brushes on the blade engaging the side walls of the tank.

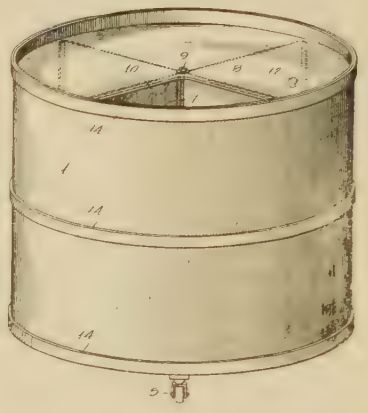
1,421,109. RIDGING PLOW. BYRON C. THOMSON, New Orleans, La., assignor to Emerson-Brantingham Company, Rockford, Ill., a Corporation of Illinois. Filed Nov. 15, 1919. Serial No. 338,146. 10 Claims. (Cl. 97—40.)



1. In a ridging plow of the character described, the combination of a frame supported by front dirigible wheels which straddle a ridge and by a rear furrow wheel which treads in the resultant furrow, and plow bodies carried by the frame intermediate said front and rear wheels comprising a pair of front disks of relatively large diameter, substantially spaced apart, one at each side of the center of the plow and arranged to turn the soil outwardly, a disk at the rear of each front disk, set closer to the center and substantially at the same depth to take new land and turn it outwardly over the soil turned by the front disk, and a middle-breaker plow at the rear of and centrally between the rear disks for taking the remainder of the new land left between the rear disks and turning it to both sides over that turned by the said rear disks, whereby the land turned at each side forms a slope from the furrow formed by the middle-breaker plow to the crest of the adjoining ridge.

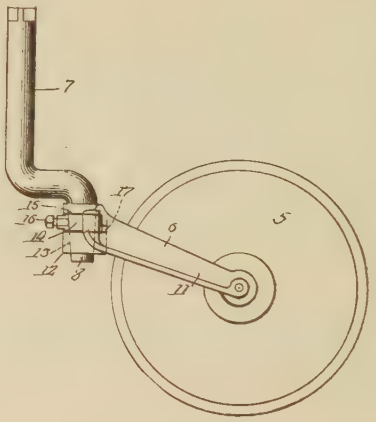
1,421,110. LAUNDRY TRUCK. GODFRED C. THUESEN, San Francisco, and ERVE C. STRICKLAND, San Jose, Calif. Filed Mar. 19, 1921. Serial No. 453,860. 6 Claims. (Cl. 280—50.)

1. A new article of manufacture comprising a cylindrical laundry truck; vertically disposed partitions mounted within the truck to provide a plurality of compartments therein; a bead mounted within the truck and having its upper edge projecting slightly above the upper edges of the partitions; and a cover rotatably mounted upon the partitions and having the periphery thereof



resting upon said bead, said cover being provided with an aperture arranged to fully uncover only one of said compartments at one time.

1,421,111. COLTER. HARRY R. TRAPHAGEN, Rockford, Ill., assignor to Emerson-Brantingham Company, Rockford, Ill., a Corporation of Illinois. Filed June 16, 1919. Serial No. 304,378. 5 Claims. (Cl. 97—43.)

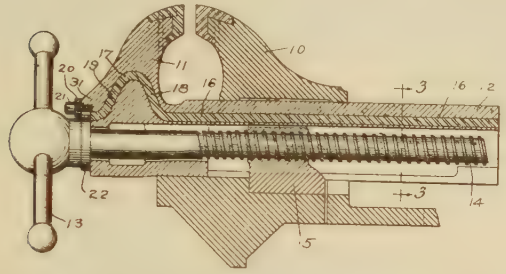


1. The combination with a colter disk, of a supporting bracket therefor, a stem having a longitudinally tapered end, said bracket shaped to provide a longitudinally tapered opening adapted to receive said tapered end on the stem, the tapered end of the stem being of sufficient length to permit adjustment of the bracket to a position in which it fittingly seats on said stem, and a set collar having a tapered opening and adapted to fit said tapered stem and be secured thereto for holding the bracket in operative position thereon.

1,421,112. VISE SLIDE. PERCY H. D. WALKER, Meriden, Conn., assignor to The Charles Parker Company, Meriden, Conn., a Corporation of Connecticut. Filed May 7, 1921. Serial No. 467,743. 6 Claims. (Cl. 81—17.)

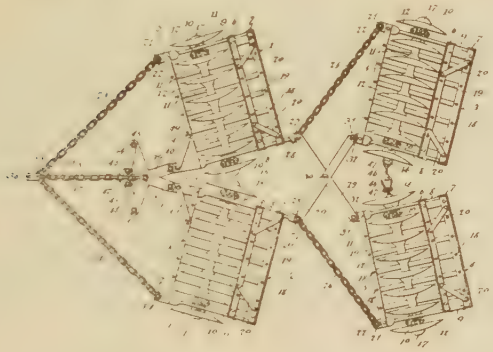
1. In a device of the class described, a casting provided with an arched reinforcing member of greater

strength than the casting, imbedded therein and arranged to have the normal flexural stresses produce a tension on



one side of the arch in said member, and a compression on the opposite side thereof.

1,421,113. DISK CULTIVATOR. DANIEL M. WATTERS, Los Angeles, Calif., assignor to Killefer Manufacturing Company, Los Angeles, Calif., a Corporation of California. Filed Oct. 20, 1919. Serial No. 331,807. 6 Claims. (Cl. 55—83.)



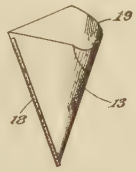
1. A cultivator comprising a plurality of frames arranged side by side, cultivator members carried by the frames, bell-crank levers pivoted at their rear ends to the inner front corners of the frames respectively and pivotally connected with one another, links pivoted to the forward ends of said levers, a chain fastened to the pivot of the levers, an eye pivoted to the links, and connections fastened to the frames near their front outer corners and connected to the first named chain.

6. A cultivator comprising a front pair of frames, a rear pair of frames, cultivator members carried by the frames, lever means operative to one position to simultaneously shift one end of the front pair of frames rearward and one end of the rear pair of frames forward, said lever means being operative to another position to simultaneously shift said end of the front pair of frames forward and said end of the rear pair of frames rearward, and means to connect different portions of the lever means to a motive power to cause the lever means to assume the different positions.

1,421,114. CUP. JOSEPH V. WECKBAUGH, New York, N. Y. Original application filed May 17, 1919, Serial No. 297,762. Divided and this application filed July 15, 1920. Serial No. 396,342. 9 Claims. (Cl. 229—1.5.)

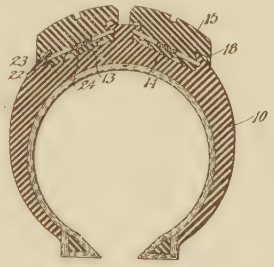
1. A pliable metal clamping strip for the registering edges of a paper container, adapted to be fed by a sprocket wheel and having perforations arranged longitudinally thereof to afford accurate feed of the strip and to insure bending of the strip most readily along the line of perforations.

5. A drinking cup consisting of a paper blank substantially in the form of an equilateral parallelogram, folded backwardly at one corner along a line perpendicular to the diagonal of the parallelogram and turned about said



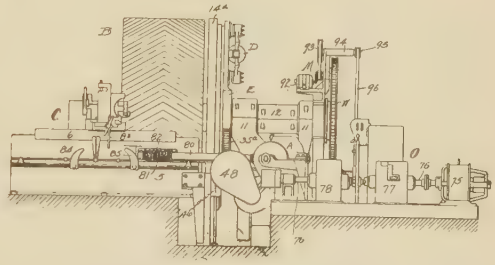
diagonal, and having its lengthwise edges secured to each other.

1,421,115. TIRE CONSTRUCTION. GUY R. WILLIAMS, San Francisco, Calif. Filed Mar. 16, 1921. Serial No. 452,668. 7 Claims. (Cl. 152—14.)



4. A tire structure including a casing provided with a plurality of grooves, a plurality of tread blocks interlocked at their side edges with the grooves and slidable into and out of engagement with the same, and laterally extending locking devices carried by the blocks and engaging the walls of the grooves for locking the blocks therein.

1,421,116. GEAR-CUTTING MACHINE. LOUIS A. WOODARD and HOWARD H. TALBOT, Wooster, Ohio. Filed July 30, 1920. Serial No. 400,218. 12 Claims. (Cl. 90—3.)

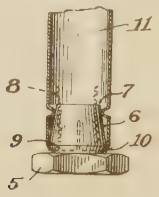


1. In a gear cutting machine the combination with means for supporting the oscillating gear blank, of a carriage having mounted thereon a tooth forming device and means for operating said carriage with a quick or slow reciprocating movement according to the type of tooth forming tool mounted on the carriage, said means including a rack on the carriage, a worm engaging said rack, and a change speed gearing device operatively connected with said worm to impart a slow or rapid movement thereto.

5. In a gear cutting machine, a support for the gear blank including a face plate having a locking channel, journal means for said support, an oscillating frame journaled independently of the support, a locking device carried by said frame and including a bolt having its head riding in the channel of said face plate, and manually controlled means for moving the bolt axially to lock the face plate and frame together, a segmental rack detachably carried by said frame, a shiftable cutter carrier mounted to move in a rectilinear path across the face

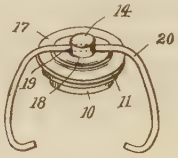
of the gear carried by said support, and an operating unit having gearing for simultaneously reciprocating the tool carrier and oscillating the said frame.

1,421,117. QUICK-DETACHABLE TIRE-VALVE DUST CAP. CHARLES HUGH WOODBURY, Los Angeles, Calif. Filed July 18, 1919. Serial No. 311,883. 1 Claim. (Cl. 152—12.)



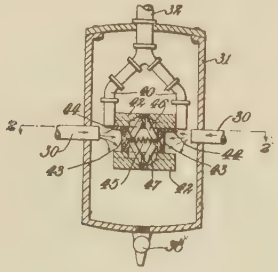
The combination with a pneumatic tire valve stem nut having a frusto conical portion projecting from the face thereof, said frusto conical portion having an annular groove at the junction of the conical portion and nut, of a substantially cylindrical dust cap having an inturned lower edge for detachably engaging said annular groove, and having an annular internal rib located at a distance from the said lower edge which is less than the height of the frusto conical portion whereby when said inturned edge is in engagement with the groove the internal rib contacts with the surface of the frusto conical portion below the top thereof.

1,421,118. BOTTLE STOPPER. JOHN M. S. ANDERSON, Bridgeport, Conn., assignor to The General Machine and Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Jan. 14, 1921. Serial No. 437,285. 2 Claims. (Cl. 215—67.)



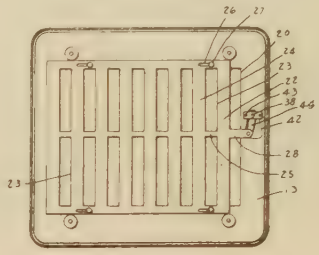
1. A stopper consisting of an elastic plug provided with a pocket having an enlargement, a bail carrying member of inverted U-shape and comprising a head having legs from which feet extend in opposite directions, said legs adapted to enter said pocket and said feet adapted to seat in said enlargement, and said head adapted to project beyond said plug, a cap adapted to rest upon the plug and provided with an opening to receive said head and a portion of said legs, said head, cap and legs defining a passageway, and a bail adapted to snugly fit said passageway.

1,421,119. VALVE MECHANISM. JOSEPH ARDO, Newhall, W. Va. Filed Apr. 16, 1920. Serial No. 374,332. 2 Claims. (Cl. 277—20.)



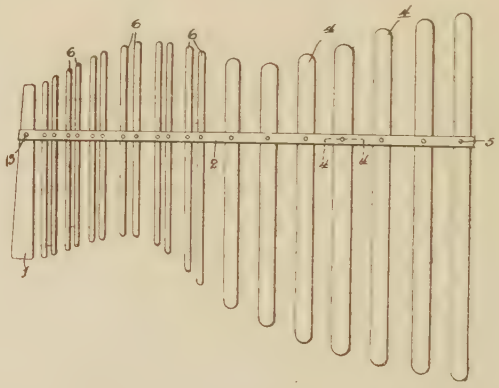
1. A valve mechanism for the purpose specified comprising a tank, a pair of pipes leading into opposite sides of said tank, a second pair of pipes having their intake ends located near the discharge ends of the first pair of pipes, valves controlling the entrance to the second pair of pipes, and means normally urging said valves toward closed position, said means being adapted to be acted upon by the fluid flowing from the first pair of pipes to hold the valves open.

1,421,120. SHIELD FOR MOTOR RADIATORS. EARL J. ASKREN, JOHN F. WORMAN, and CHARLES F. ZWICK, Indianapolis, Ind. Filed Mar. 6, 1920. Serial No. 363,753. 1 Claim. (Cl. 257—132.)



In a radiator shield construction a shield plate provided with a plurality of parallel longitudinal openings, a damper plate provided with similar openings, the latter openings being registrable with the former openings, said shield plate having a recess in one edge thereof, a bar secured to the other side of said shield plate adjacent the recess, a rocking link pivotally supported in said recess upon said bar, a rock shaft for rocking said link, and means for rocking said shaft.

1,421,121. MEANS FOR HOLDING CORSET STAYS IN PLACE. JAMES CLARENCE BELL, Murrayville, Ill., assignor of one-half to Roy Clark, Murrayville, Ill. Filed July 26, 1920. Serial No. 399,011. 4 Claims. (Cl. 2—76.)

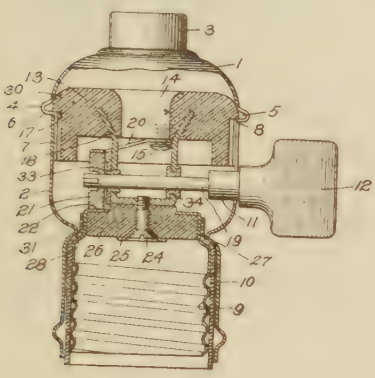


1. A corset structure comprising a plurality of parallel stays, and a main stay disposed at right angles to the parallel stays and rigidly fixed thereto to prevent independent relative movement of the parallel stays with respect to each other, all of the said stays being connected to the said main stay at different points intermediate the ends of the said parallel stays whereby the opposite ends of the said parallel stays will be held in irregular alinement.

1,421,122. LAMP SOCKET. DAVID E. BOWN, Crafton, Pa. Filed Nov. 5, 1918. Serial No. 261,265. 12 Claims. (Cl. 173—351)

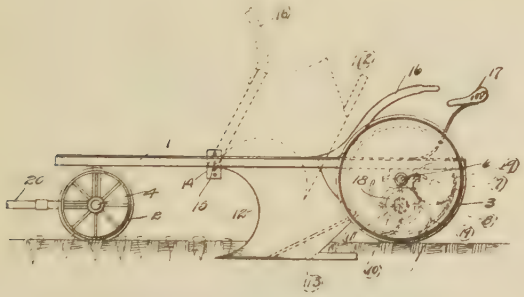
1. A lamp socket comprising a cap and a cooperating outer shell adapted to telescope therewith and having a

restricted internal shoulder therein, an insulating member held in the cap, a second insulating member carrying a screw shell, said screw shell being flared outwardly to form an external shoulder adapted to abut the inside of the internal shoulder of the outer shell, an insulating



member positioned to separate the screw shell from the outer shell, a frame member carried by the first mentioned insulating member, and means to clamp the second insulating member to said frame, whereby to hold the cap and shell and associated parts in assembled position.

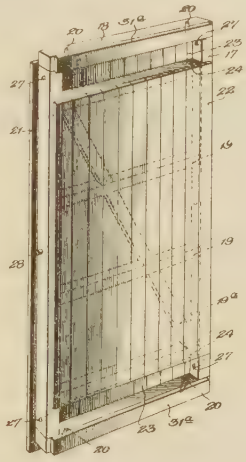
1,421,123. BEET DIGGER. PETER J. BOYLE, Saginaw, Mich. Filed Mar. 3, 1921. Serial No. 449,400. 4 Claims. (Cl. 55—59.)



1. A beet lifter comprising, in combination, a frame, ground engaging wheels supporting said frame, a substantially V-shaped digger pivotally secured thereto, a plate in said digger for raising the beets above the ground, and driven means positioned in the rear of the digger for cleaning said beets and leveling the ground.

1,421,124. HOUSE CONSTRUCTION. LEWIS BRANDT, Pittsburgh, Pa. Filed May 11, 1918. Serial No. 233,960. 7 Claims. (Cl. 20—2.)

1. A finished building panel comprising a rectangular frame, sheathing on both sides of said frame, the sheathing on one side terminating short of the two opposed ends of the frame which constitute in use the bottom and top of the frame, whereby to afford access to the interior of the frame at the bottom and top of the panel, and means in

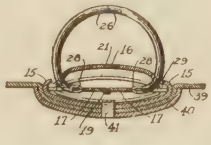


the sides of the frame adjacent the ends permitting the panel to be secured to adjacent panels.

1,421,125. METHOD OF MAKING BINDERS FOR PIGMENTS. HOMER A. BUCK, Oakland, Calif., assignor to Granville Moore, San Francisco, Calif. Filed June 21, 1920. Serial No. 390,639. 7 Claims. (Cl. 134—36.)

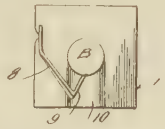
3. A non-inflammable printing ink consisting of a pigment thoroughly incorporated in a non-inflammable binder containing shellac, borax and water.

1,421,126. LOOSE-LEAF BINDER. JOHN BYSTROM, Chicago, Ill. Filed Dec. 15, 1919. Serial No. 344,822. 10 Claims. (Cl. 129—24.)



1. A device of the character described embodying a pair of members pivoted at their inner edges, oppositely disposed and co-operating prongs carried by the respective members, one or more resilient annular links encompassing the members and engaging the outside edges of the members for yieldingly holding the inner edges of said members in pivotal relation, and protecting means for the said links.

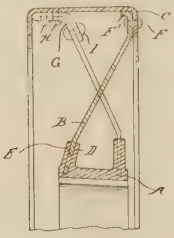
1,421,127. NUT LOCK. WILLIAM J. CHISM, Cleveland, Ohio. Filed Dec. 16, 1919. Serial No. 345,391. 1 Claim. (Cl. 151—30.)



A nut and bolt lock, in combination with a nut having a dove tail groove extending transversely therethrough adjacent its outer surface and opening through said outer surface, an integral plate consisting of an oblong body arranged in the groove and having one of its terminals bent at right angles to engage the inner face of the nut, a por-

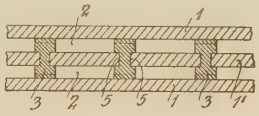
tion of one margin of the plate, above said nut, being extended across the outer face of the nut and engaged therewith, the free terminal of the extended portion being bent at right angles and engaged with the threads of the bolt substantially as described.

1,421,128. VEHICLE WHEEL. JAMES HARRY CLARK, Detroit, Mich. Filed Sept. 30, 1921. Serial No. 504,487. 4 Claims. (Cl. 301—73.)



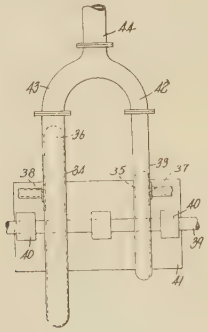
1. A vehicle wheel comprising a rim and a member having a return-bent portion contiguous with said rim and means rigidly securing both plies of the return-bent portion rigidly to the rim.

1,421,129. CONCRETE WALL. ANTON MARIUS CRAMER, Arendal, Norway. Filed Apr. 29, 1919. Serial No. 293,432. 3 Claims. (Cl. 72—47.)



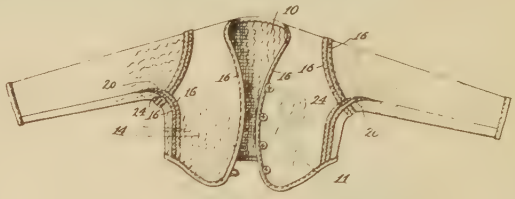
1. A concrete wall construction comprising spaced, inner and outer wall sections of concrete, and solid concrete tie pillars joining the same and located intermediate the side edges of the inner and outer wall sections, said pillars having grooves provided in their sides which face the wall sections to receive the concrete from which the wall sections are formed which forms rigid locking tongues projecting into the grooves of the pillars outward from said inner wall section and inwardly from said outer wall section and integral with their respective wall sections.

1,421,130. FLUID-MIXING DEVICE. WILLIAM W. CUMMINGS, Woburn, Mass. Filed May 31, 1919. Serial No. 300,938. 2 Claims. (Cl. 48—180.)



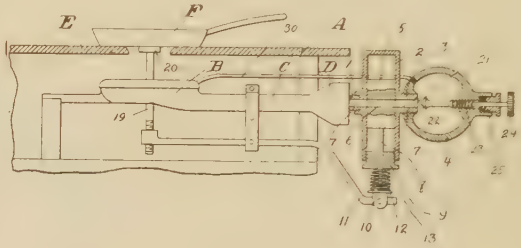
1. A blower for mixing gases and supplying pressure thereto having, in combination, a casing provided with two chambers, with an inlet for each of said chambers and a common outlet for said chambers, a fan in each of said chambers, the length of the blades of one of said fans being different from the length of the blades of the other of said fans and means independent of the pressure of said gases for rotating said fans.

1,421,131. VEST, JACKET, AND THE LIKE. ISAAC ABRAMS, Jersey City, N. J. Filed Nov. 15, 1920. Serial No. 424,214. 3 Claims. (Cl. 2—97.)



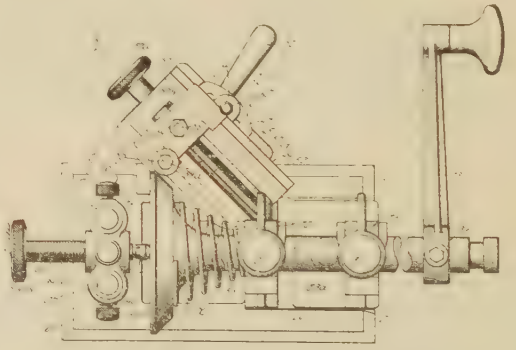
1. A garment of the kind described, comprising inner and outer facings of light and dark colors respectively, and a wadding between said facings embodying light and dark colored layers, the light and dark-colored layer of wadding directly underlying the correspondingly colored facings, said facings and wadding being quilted together.

1,421,132. VALVE MECHANISM. FRANK E. ACUFF, Chicago, Ill. Filed June 14, 1921. Serial No. 477,558. 1 Claim. (Cl. 126—52.)



In combination a gas burner, a valve controlling the flow of gas to the burner, a centrally pivoted lever arranged below the burner and having one end connected to the valve for operating the latter, a spring acting against the lever, and a stem having screw threaded engagement with the other end of the lever and having its head portion arranged above the burner.

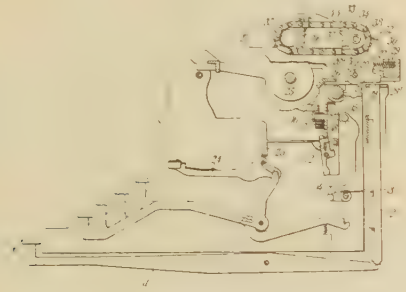
1,421,133. VALVE-REFACING APPARATUS. FRANS O. ALBERTSON, Sioux City, Iowa, assignor to Albertson & Company, Sioux City, Iowa, a Corporation of Iowa. Filed Sept. 7, 1920. Serial No. 408,430. 8 Claims. (Cl. 82—1.)



1. An apparatus for refacing puppet valves comprising a base, means carried by the base adapted to support the stem of a valve to be refaced, a member carried with the base and provided with a guideway, a plate mounted in said guideway for rectilinear movement toward and away from the head of the valve to be refaced, an aperture in said plate, a cutter head carrier mounted on the plate and having a boss journaled in said aperture, means for retaining the cutter head carrier in any one of a plurality of angular positions with respect to said plate, a

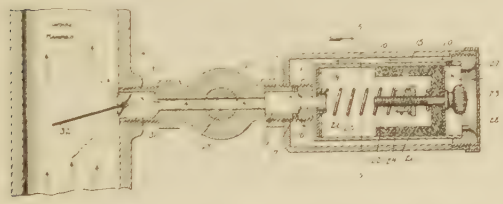
cutter head mounted on the cutter head carrier for reciprocating movement relatively thereto, a cutting tool fixed on the cutter head, an operating screw carried by the cutter head carrier and co-operating with the cutter head to reciprocate the latter, and means for rotating the valve.

1,421,134. TYPEWRITING MACHINE. J FRANK ALLARD, Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 13, 1918. Serial No. 216,903. 11 Claims. (Cl. 197—179.)



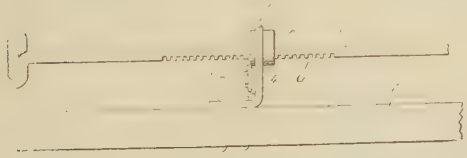
1. In a typewriting machine, the combination with a traveling carriage, of a vertically slidable stop, a plurality of column-stops pivoted on said carriage in advance of said vertically slidable stop, each of said column-stops having a rearwardly extending arm to co-operate with said slidable stop, and an upwardly extending arm, devices, one for each column-stop normally holding the same out of position to co-operate with said vertically slidable stop when in operative position, a shaft adjacent said column-stops and above the pivots thereof, and cam members on said shaft adapted to operatively position said column-stops through co-operation with the upright arms thereof.

1,421,135. AUXILIARY AIR INLET FOR INTERNAL-COMBUSTION ENGINES. FRANCIS O. ALTON, Waterbury, Conn. Filed Oct. 13, 1920. Serial No. 416,614. 8 Claims. (Cl. 137—152.)



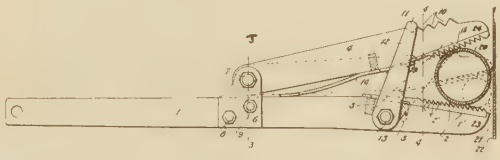
1. In a device of the character described, a casing adapted to communicate with the intake manifold of an internal combustion engine and having an air inlet, suction operated means to control the passage of air from said inlet to said manifold, and means arranged to be actuated by the fuel passing through said manifold to control the communication between said casing and said manifold.

1,421,136. ECCENTRIC LEVER. AUGUST ANDERSON, Independence, Kans. Filed Mar. 11, 1921. Serial No. 451,567. 2 Claims. (Cl. 74—39.)



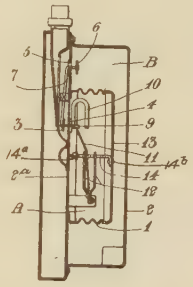
1. The combination of a notched sliding lever with an eccentric rotating collar as a guide, an extending arm designed to engage the eccentric rotating collar, a latch designed to engage the notches in the notched sliding lever.

1,421,137. PIPE WRENCH. CHESTER L. ANDERSON and JAMES T. SMITH, Springfield, Mass. Filed Jan. 29, 1921. Serial No. 440,920. 2 Claims. (Cl. 81—111.)



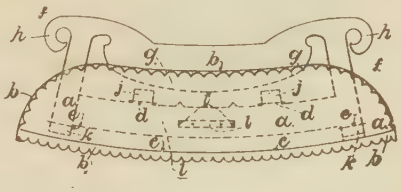
1. A pipe wrench comprising in combination, with a handle member having a serrated pipe gripping jaw portion on its forward end, of a movable jaw pivotally connected to the handle member and formed with pipe gripping serrations on its forward edge and located opposite the serrations on the handle member, a latch pivotally connected to the handle member and engaging the serrations on the movable jaw member for adjusting the distance between the movable serrated jaw and the handle, the movable jaw having an opening therein, a plate covering the opening and means in the opening to permit the plate to slide on the jaw, said means including a pin, a spring thereon and a perforated boss on the plate through which the pin passes, as described.

1,421,138. GAS METER. EMIL EINAR WILHELM ANDERSON, Stockholm, Sweden. Filed Jan. 24, 1919. Serial No. 272,954. 4 Claims. (Cl. 73—1.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



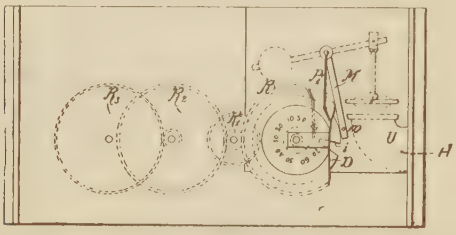
1. In a gas meter the combination of a casing having a flexible partition dividing said casing into an inner and outer measuring chamber, valve openings in one side wall of said casing for said inner chamber, other valve openings in said side wall for said outer chamber, closing members for said valve openings, and means operable by the movement of said flexible partition for actuating said closing members.

1,421,139. HAT SHIELD OR PAD. WILLIAM JOSEPH ANDERSON, Hyde, England. Filed June 9, 1920. Serial No. 387,749. 5 Claims. (Cl. 2—32.)



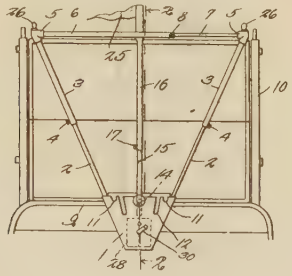
1. A hat shield comprising in combination, a backing piece adapted for attachment to an internal hat leather, a strip of felt, a carrier piece secured to said felt, stud-like projections provided on said backing piece and holes formed in said carrier piece adapted to receive said stud-like projections of the backing piece.

1,421,140. GAS METER. MARIO ANNINGER, Trieste, Italy. Filed Apr. 30, 1919. Serial No. 293,814. 4 Claims. (Cl. 221—101.)



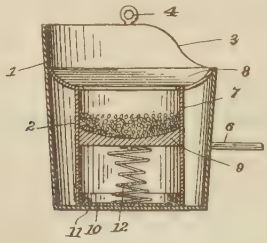
1. An improved apparatus applicable to gas meters for the purpose of delivering varying quantities of gas as required by the consumer, comprising a cutoff, an indicator of a predetermined amount of gas to be delivered, a shaft carrying said indicator, a key seat mounted on said shaft, said indicator movable in one direction without the movement of said cutoff, a member mounted upon said shaft and provided with a recess, means projecting from said cutoff in the track of said recess whereby upon the insertion of a key upon the said key seat and the turning of said key, the said indicator is set to indicate a predetermined amount of gas to be delivered and the said projection will be engaged in the said recess and moved thereby upon the turning of the said shaft to position the said indicator at said predetermined position and thereby close the supply of gas.

1,421,141. SIGNAL. MARJORIE BELLE ARMITAGE, Colorado Springs, Colo. Filed Aug. 19, 1920. Serial No. 404,488. 3 Claims. (Cl. 116—47.)



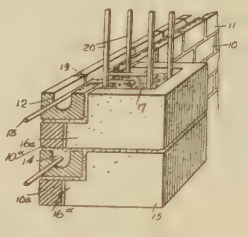
1. A traffic indicator comprising a frame including a base and a top bar, an arm slidable on the top bar and cooperating elements carried by said arm and base permitting a lateral shifting of the arm and vertical movement thereof.

1,421,142. ANIMAL FEED RECEPTACLE. SETRAK ASATURIAN, New York, N. Y. Filed May 29, 1926. Serial No. 385,094. Renewed Nov. 26, 1921. Serial No. 518,072. 1 Claim. (Cl. 119—68.)



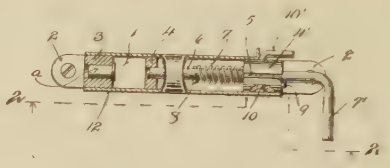
The combination with an outer receptacle adapted to hold water, of a feed holder removably mounted in said receptacle, a constant level feed elevating device arranged in said feed holder and removable from the receptacle therewith, and a converging flange carried by said feed holder and extending from the upper edge thereof to the walls of the receptacle for the purpose specified.

1,421,143. BUILDING CONSTRUCTION. CHARLES J. ASCHAUER, Decatur, Ill. Filed May 13, 1921. Serial No. 469,223. 10 Claims. (Cl. 72—30.)



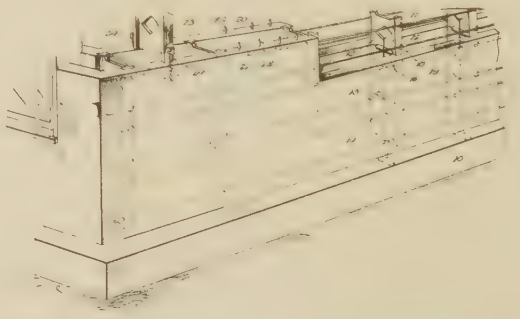
4. In a wall construction, a plurality of facing units arranged in layers, column units laid one on the other and arranged in the rear of said facing units, concrete filling said column units, and means tying the facing units to said concrete.

1,421,144. BURGLAR ALARM. FRED K. ATHERTON and CLARENCE F. WEBB, Racine, Wis.; said Webb assignor of his entire right to Christian P. Petersen, Racine, Wis. Filed Oct. 31, 1921. Serial No. 511,607. 1 Claim. (Cl. 116—89.)



A burglar alarm for doors and windows, comprising a bracket adapted to be attached in juxtaposition thereto, having a cartridge magazine extending from the bracket and spaced apertured ears extending therefrom, aligned with the cartridge magazine, one of the ears being longitudinally slotted; the combination of a spring controlled firing plunger, having an offset trigger, the same being reciprocatively and oscillatorily mounted in the ear apertures, a setting pin extending from the plunger arranged to engage one end of the slotted lug to hold the plunger in a firing position, and to be shifted for travel in the lug slot when said plunger is tripped, and a safety lock for the plunger, including a manually controlled setting stem, rotatably mounted in the slotted bracket lug, the stem being provided with an offset setting handle, and a tooth extending from the stem for engagement with the plunger notch when said plunger is retracted to its loaded position.

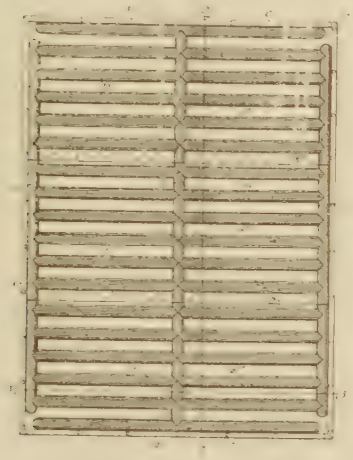
1,421,145. HOLLOW CONCRETE WALL. JOHN SCOTT BANKS, Norfolk, Va. Filed May 29, 1920. Serial No. 385,154. 4 Claims. (Cl. 72—48.)



2. A wall comprising spaced columns each consisting of sections superposed end to end, inner and outer wall sections embedding the vertical edges of the columns, re-

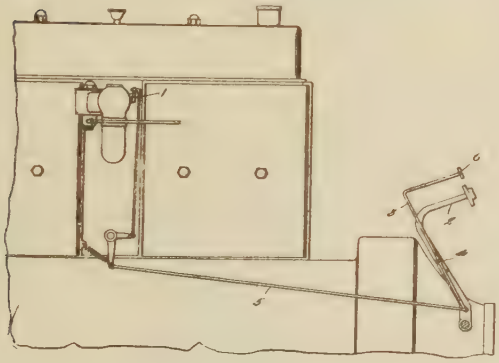
inforcing rods supported on the edges of the columns and embedded in the respective wall sections, and means between the wall sections for tying the column sections together at their meeting ends.

1,421,146. FIRE DOOR OR SHUTTER. ALLAN S. BARROWS, Chicago, Ill. Filed Feb. 4, 1920. Serial No. 356,224. 7 Claims. (Cl. 189—46.)



1. In a fire-resisting door or shutter, the combination with inner and outer sheet metal walls, said walls having their edges overlapped and rigidly united, each wall having a flat marginal portion, each of said walls being provided with a plurality of outwardly-extended integral corrugations dividing the wall into a plurality of panels, each outlined by corrugations adapted to locally compensate for expansion of the metal in any direction in the general plane of the wall, the panels of one sheet metal wall being disposed opposite the corresponding panels of the other sheet metal wall and separated and disconnected therefrom.

1,421,147. ATTACHMENT FOR MOTOR VEHICLES. ERNEST W. BAXTER, Van Wert, Ohio. Filed Apr. 25, 1921. Serial No. 464,326. 1 Claim. (Cl. 74—81.)

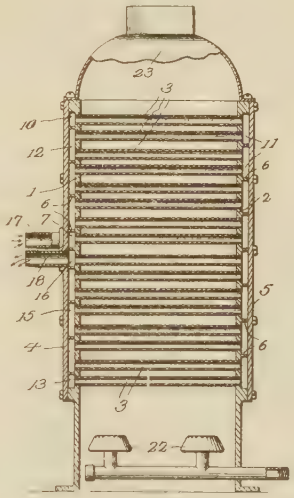


In combination with the foot pedal and throttle of a motor vehicle, a lever pivoted to the pedal, a link connecting the lower end of the lever with the throttle and a foot piece on the upper end of the lever projecting above the foot piece of the pedal.

1,421,148. COLLAR BUTTON AND CLASP. THEODORE B. BECKLEY, New Orleans, La. Filed Sept. 18, 1920. Serial No. 411,038. 4 Claims. (Cl. 24—80.)

3. A device of the class described having a supporting bar, clasp arms on opposite sides thereof, said bar having a slot therein, a stud extending from one of the arms to pass through said slot, said stud having a shoulder to engage the bar, and separable fastening means between the stud and the other arm including a turnable head on the latter arm.

1,421,149. WATER HEATER. CLARK D. BEDWIN, Long Beach, Calif. Filed May 5, 1920. Serial No. 379,092. 4 Claims. (Cl. 122—356.)

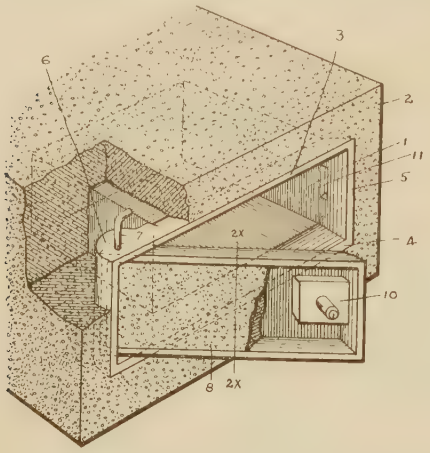


1. A water heater comprising oppositely arranged headers having a plurality of relatively short projecting ribs upon the outer faces thereof arranged so as to form two sets of headers on each side of the heater, a plate fitted against the ribs of the headers, said plate forming one wall of a series of relatively small water circulating chambers at the front and back of the heater, tubes connecting the corresponding sets of headers for establishing communication with the aforesaid chambers, a water inlet provided at the front midway of the heater and communicating with one of the circulating chambers, and an outlet for the heated water, said outlet communicating with another of said circulating chambers and arranged midway of the heater in close proximity to the aforesaid inlet.

1,421,150. FIREPROOF LOCK BOX. CHARLES G. BENNET, Rochester, N. Y. Filed Dec. 15, 1921. Serial No. 522,688. 3 Claims. (Cl. 109—2.)

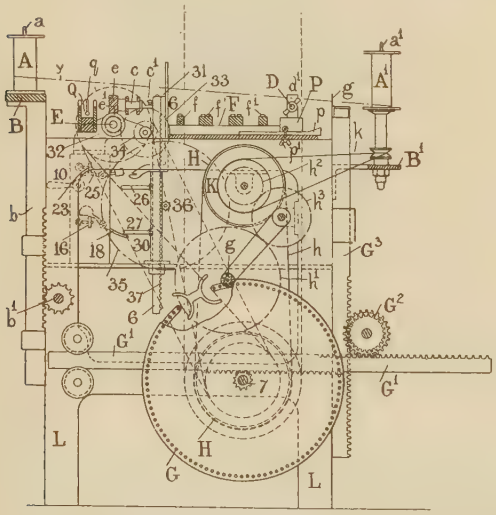
1. In a lock box, the combination of a box body open on the front thereof, outwardly flaring flanges formed at the top and bottom and on one side at the open front of

said body box, a pocket formed on the other side of the front of said box body and projecting laterally thereof,



said box body being adapted to be cast into a concrete block with its open front located on one side thereof.

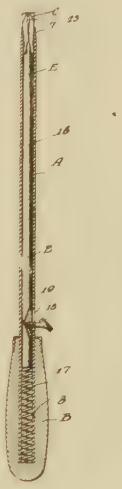
1,421,151. MACHINE FOR SPLICING UP THE ENDS OF COTTON, LINEN, AND OTHER THREADS. ARTHUR BENNETT, Hollinwood, England. Filed May 5, 1921. Serial No. 467,150. 6 Claims. (Cl. 117—6.)



1. A machine for splicing and piecing together the ends of cotton, linen and similar threads, comprising movable and fixed bobbin rails, winding mechanism, means for adjusting the position of said movable rail, and clamping devices adapted to receive the ends of the threads when said movable rail is in splicing position, the movable rail being adjusted to disengage the threads from said devices before the winding operation for the spliced threads is started.

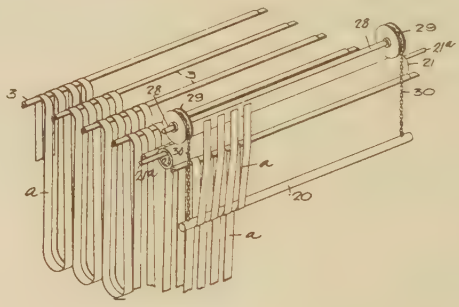
1,421,152. KEY PLACING AND REMOVING TOOL. HARRY L. BERMAN, Roxbury, Mass. Filed May 8, 1920. Serial No. 379,936. 5 Claims. (Cl. 81—112.)

1. A tool for placing and removing keys comprising in combination, a main body portion having a bore, a pair of cooperating jaws extending into the bore of said main body portion longitudinally of the axis thereof, said jaws having their confronting faces each provided with a substantially V shaped groove extending longitudinally of the jaw to receive and grip keys of angular or circular cross section, longitudinally of the jaws, said confronting



faces being in diverging relation from the exposed end portions of the jaws, inwardly, when the jaws are in close relation to grip the base of U-shaped keys transversely of the jaws, and means for operating said jaws.

1,421,153. LOOPING DEVICE FOR DRIERS. HERMANN BOGATY, Philadelphia, Pa., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 18, 1921. Serial No. 485,470. 4 Claims. (Cl. 34—12.)

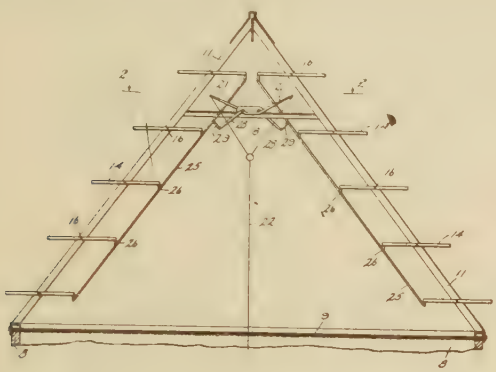


4. The combination in a drier, of an endless conveyer having a series of cross rods from which the material to be dried is suspended in the form of loops; means for intermittently moving the conveyer; a bar extending across the machine; a shaft; chain wheels on the shaft; chains attached to the chain wheels and to the bar; a pinion on the shaft; a lever having a toothed segment meshing with the teeth of the pinion; and a crank for operating the lever to raise and lower the bar.

1,421,154. SKYLIGHT VENTILATOR. PHILIP BOLOGH, New York, N. Y. Filed Mar. 5, 1920. Serial No. 363,541. 10 Claims. (Cl. 108—16.)

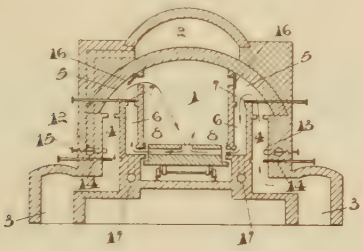
1. A skylight ventilator comprising a frame, a window pivoted in the frame, a portion of the window disposed below the pivot point adapted to swing outwardly when the window is moved to open position, said window having

a normal open position, and means for holding the window in closed position, the mass of the window and



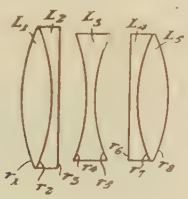
its cooperating means with respect to the pivot being so distributed that when released it automatically opens.

1,421,155. TUNNEL KILN. GEORGE W. BOOTH, Islington, Ontario, Canada. Filed May 19, 1921. Serial No. 470,895. 5 Claims. (Cl. 25—142.)



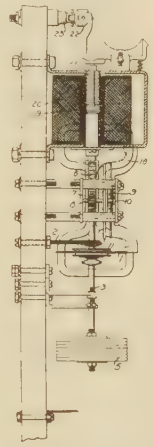
1. In a tunnel kiln provided with a combustion chamber in its wall beside the firing zone of its tunnel chamber; a flue forming a communication between the combustion chamber and the upper part of the tunnel chamber; an equalizing chamber between the combustion chamber and the tunnel chamber having an opening at its lower part communicating with the interior of the tunnel chamber and an opening at its upper part communicating with the flue aforesaid; and means for causing the products of combustion to flow either from the flue aforesaid into the top of the tunnel chamber and thence into the equalizing chamber by way of its lower opening or else into the top of the equalizing chamber through its upper opening and out of its lower opening into the lower part of the tunnel chamber.

1,421,156. OBJECTIVE FOR PHOTOGRAPHIC AND LIKE PURPOSES. LIONEL BARTON BOOTH, Cambridge, England. Filed Nov. 9, 1920. Serial No. 422,900. 2 Claims. (Cl. 88—57.)



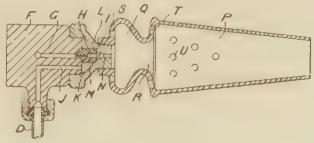
1. An objective corrected for spherical aberration, coma, astigmatism and curvature, as well as for chromatic aberrations capable of being made with a very large relative aperture made up of (1) a front component consisting of a positive lens made of crown glass of high refractive index in the vicinity of 1.6 or 1.61 and having low dispersion, cemented to a negative lens of flint glass of not greater refractive index, the former leading and being bi-convex; (2) a middle component consisting of a biconcave negative lens of a flint glass of refractive index less by at least .04 than that of the crown glass used in the positive lenses of the system and having a dispersion at least as great as that of either of the flint glasses used for the other dispersive lenses of the system; (3) a back component, similar in type to the front component but reversed, that is, with the dispersive lens towards the front, the glasses being in type similar to but not necessarily identical with those used in the front component, substantially as described.

1,421,157. CONTROL SYSTEM AND APPARATUS. EDGAR M. BOUTON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 12, 1919. Serial No. 296,614. 6 Claims. (Cl. 172—179.)



1. The combination with a motor and a switch for closing the circuit of said motor and having an actuating coil, of a switch for controlling said coil, means operable upon temporary actuation thereof to effect the closing of said second-named switch, means for maintaining said coil energized, means for delaying the return of said second-named switch to its initial position, and means for short-circuiting said coil upon the return of said second named switch to said initial position.

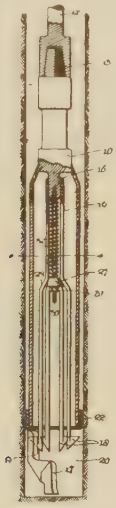
1,421,158. STARTING LAMP FOR INTERNAL-COMBUSTION ENGINES. HERBERT BROOKS, Ipswich, England, assignor to Petters Limited, Yeovil, Somerset, England. Filed July 14, 1920. Serial No. 396,222. 2 Claims. (Cl. 158—76.)



1. A burner for liquid fuel under pressure, comprising a burner body having a straight central passage therein for the liquid fuel, a nipple secured to the burner body and having a straight central passage for the liquid fuel co-axial with the fuel passage in the burner body, a nozzle secured to the burner body covering the nipple and forming a chamber surrounding the same, a pressure-fluid supply connected to said chamber, said nipple having a passage in its side wall in communication with the cham-

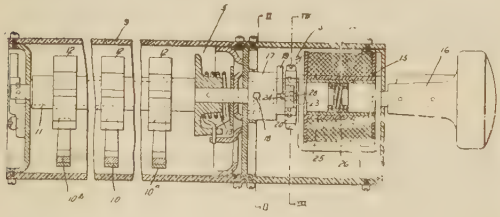
ber, said passage converging toward and meeting the fuel passage in said nipple, and a flame tube secured to the front of the nozzle and having a perforated bulb-shaped inner portion converging to a neck and a perforated outer portion diverging from the said neck and again converging to the outlet.

1,421,159. GRAPPLE. CHARLES HENRY BROWN, Ranger, Tex. Filed Dec. 18, 1920. Serial No. 431,722. 10 Claims. (Cl. 294—99.)



1. A device of the class described comprising a tubular member having its forward end open, and a plurality of spring arms carried by the tubular member and formed with barbs, the forward portion of said tubular member being provided with a collar adjustable with relation to said barbs.

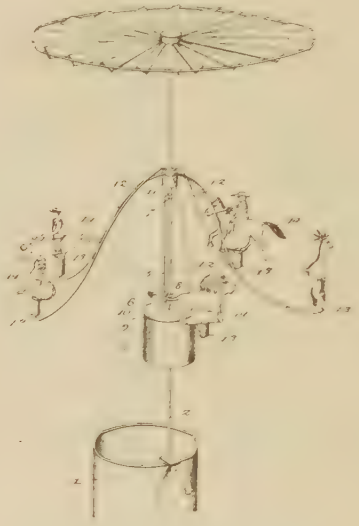
1,421,160. CONTROLLER. JAMES M. BROWN, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 19, 1917. Serial No. 202,842. 6 Claims. (Cl. 175—294.)



2. In a circuit-interrupting system, the combination with an electrically-operated circuit interrupter, of a controller therefor, and means for releasing the handle of the controller and for returning the controller to its off position when an overload obtains on the interrupter.

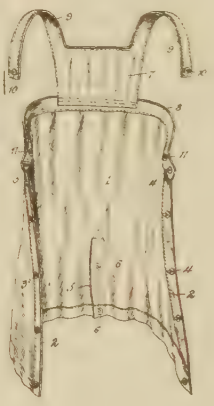
1,421,161. TOY. WARREN A. BROWNE, Hempstead, N. Y. Filed May 7, 1920. Serial No. 379,623. 1 Claim. (Cl. 46—14.)

In a device of the class described, the combination of a support constructed for attachment to a draft chimney, a block supported by said support, a step-bearing secured to the upper face of said block, a plurality of guides secured to said block and having eyes in alignment with said bearing, a rotatable rod removably supported by said guides with its end resting on said bearing, a draft motor secured to for operating said rotatable rod, a block secured to for rotation with said rod, supporting wires each pivoted at one end in the last said block and adapted



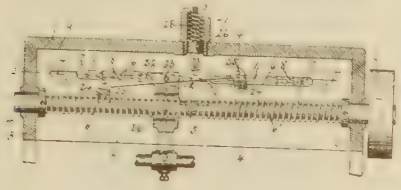
to be folded together, figures, and means supported at the free end of each of said wires for supporting a respective one of said figures and permitting removal of the figure at the will of the operator.

1,421,162. AUTO DRESS. MINERVA R. BUCKLEY, Fort Scott, Kans. Filed June 29, 1920. Serial No. 392,856. 1 Claim. (Cl. 2—145.)



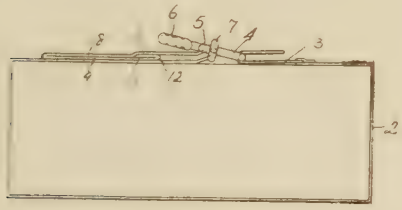
In a garment, the combination of a bib portion, shoulder straps secured to the bib portion, a skirt portion stitched at its front to said bib, a longitudinal placket formed in the rear of the skirt portion, button-holes formed on one face of the material of the skirt adjacent the opening and buttons secured on the opposite face, whereby the opening may be closed to form a skirt, a comparatively short placket formed in the front of the skirt and extending from the hem thereof, buttons secured on one face of the placket and button-holes formed on the opposite face thereof, whereby the placket may be closed or whereby several buttons of the rear placket may engage the button-holes of the short placket and the buttons of the short placket may engage several button-holes of the rear placket to form leg portions at the lower end of the skirt.

1,421,163. REVERSE MOTION. CHARLES E. BURROWS, Vestal, N. Y. Filed Oct. 8, 1920. Serial No. 415,534. 4 Claims. (Cl. 74—40.)



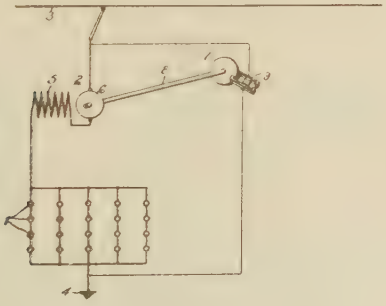
1. The combination of a rotary screw, a nut movable into and out of engagement with the screw and actuated lengthwise thereof when engaged therewith, and means including a guide extending lengthwise of the screw for holding the nut in engagement with the screw during a predetermined movement of said nut along the screw and for releasing it from said engagement at the end of said movement.

1,421,164. BINDING STRAP. ALVAH BUSHNELL, Jr., Philadelphia, Pa., assignor to Alvah Bushnell Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 20, 1922. Serial No. 544,991. 1 Claim. (Cl. 24—17.)



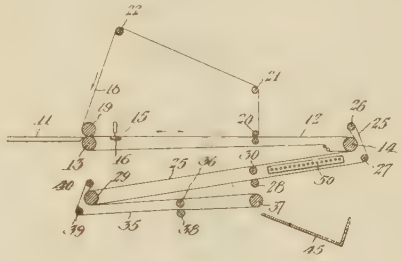
A web strap having a hook at one end and having a portion of the other end folded over to provide two strands or layers, the extreme end having a relatively short portion folded over and disposed between said strands thereby providing three layers transversely of the strap beyond the fold of the last mentioned folded over portion to form a stop for a slide mounted upon the strap.

1,421,165. REGULATING SYSTEM. ANDREW H. CANDEE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 26, 1918. Serial No. 251,421. 4 Claims. (Cl. 171—225.)



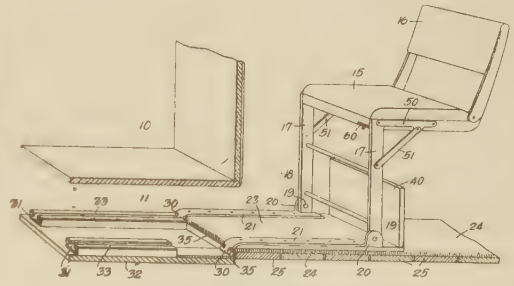
1. The combination with a plurality of translating devices and a series-wound motor connected in series across a supply circuit, of a disk generator associated with said motor and means for varying the current induced in the disk of said generator to vary the counter-electromotive force of said motor and to maintain a constant current flow through the motor and said devices.

1,421,166. DRIER FOR PAPER-RULING MACHINES. JAMES H. CANNON, Los Angeles, Calif. Filed May 8, 1920. Serial No. 380,001. 10 Claims. (Cl. 219—19.)



1. In a paper ruling machine; an artificial source of radiant heat; and means for supporting the ruled paper above said source with the ruled lines down.

1,421,167. FOLDING SEAT. ALEXANDER CARLSON, New York, N. Y. Original application filed Jan. 15, 1919, Serial No. 271,233. Divided and this application filed Oct. 7, 1919. Serial No. 329,117. 7 Claims. (Cl. 155—13.)



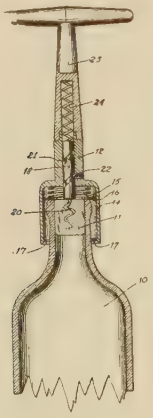
1. In a vehicle, a fornt seat having a seat storage chamber open at the back, a longitudinal guideway wholly confined within the said seat storage chamber, a base having a head slidably engaging the said guideway, the rear edge of the storage chamber forming a stop for the said head, adjacent the rear of the chamber, an upright pivoted adjacent the rear end of the said base to fold thereon, and a seat pivoted at its forward end to the upper end of said upright to extend rearwardly therefrom and to fold thereon, whereby the seat can be folded and held in the storage chamber of the front seat or held adjacent the front seat or spaced therefrom to permit it to support a person facing either backward or forward.

1,421,168. CONTAINER FOR ELECTRIC WIRES. HYMAN CHARM, Dorchester, Mass. Filed Apr. 5, 1920. Serial No. 372,091. 4 Claims. (Cl. 247—37.)

1. A containing strip for electric wires consisting of a back plate having parallel separated cylindrical wire-

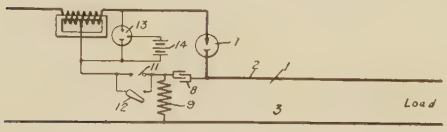
enclosing portions having their walls extending to the face of said back plate and a detachable wire-enclosing member having resilient edges to engage said cylindrical wire-enclosing portions.

1,421,169. AUTOMATIC CORKSCREW. JOHN CHMURA, Marmarth, N. Dak. Filed Aug. 11, 1921. Serial No. 491,354. 1 Claim. (Cl. 65—51.)



In a semi-automatic cork-screw comprising a handle, an axially stemmed cylindrical cup secured adjacent the handle, said handle having an annular recess axially of the handle and cup stem, a spring in said recess, a spirally grooved rod operable in the recess against the pressure of said spring, a pointed spiral adapted to enter a cork fixed in the lower end of said rod, a disc within the cup for supporting the structure, said structure being rotatable about the bottle neck, a spring interposed between said disc and said cup, and a flange extending in from the lower edge of said cup, said flange maintaining said disc within the cup and also being adapted to direct liquids downwardly and against the wall of the bottle.

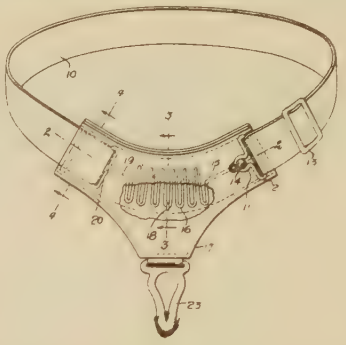
1,421,170. CIRCUIT INTERRUPTER. LEWIS WARRINGTON CHUBB, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 14, 1918. Serial No. 211,711. 12 Claims. (Cl. 175—294.)



12. In an electrical circuit, the combination with a vacuum-electric apparatus, of a normally charged condenser connected in shunt relation thereto, a spark gap connected in series with the condenser, and means for causing the spark gap to break down under predetermined conditions in the circuit.

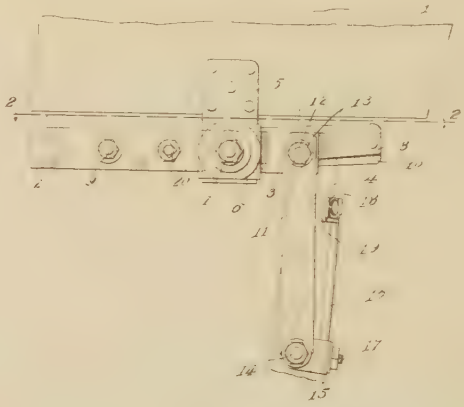
1,421,171. GARMENT SUPPORTER. HOLGER V. CLAUSEN, New York, N. Y. Filed Jan. 19, 1921. Serial No. 438,436. 9 Claims. (Cl. 241—6.)

1. A garment supporter of the class described, including a strip, a shield, a spring housed within the shield, means at the exterior of the shield at the front of the same and affording a detachable connection between an



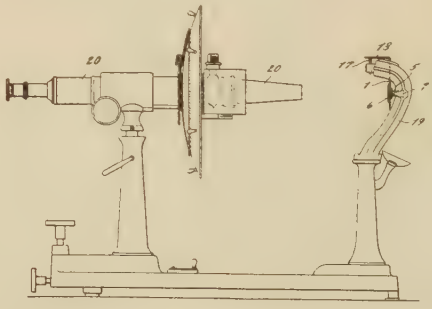
end of the spring and the strip, and means carried by said shield independently of the spring for attaching the shield to a garment to be supported.

1,421,172. PICKER-STICK CHECK FOR LOOMS. WILLIAM F. CLAYTON, Huntsville, Ala. Filed Jan. 25, 1922. Serial No. 531,696. 6 Claims. (Cl. 139—22.)



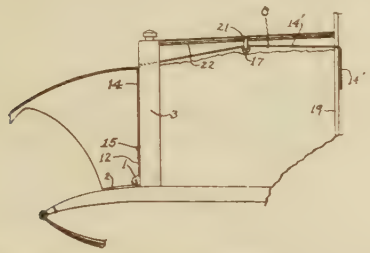
1. A check for looms including a frame suported beneath the lay of a loom and a buffer member mounted for vertical and angular adjustment upon said frame and disposed in the path of the picker-stick.

1,421,173. ACCESSORY FOR OPHTHALMOMETERS. HANS CLEMENT, New York, N. Y., assignor to General Optical Company, Inc., a Corporation of New York. Filed Sept. 29, 1920. Serial No. 413,485. 9 Claims. (Cl. 35—16.)



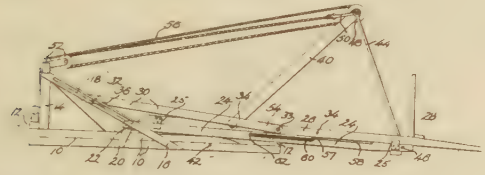
1. An accessory for ophthalmometers comprising a frame having means for attachment to an ophthalmometer and a device having a convex toric reflecting surface detachably carried by the accessory frame.

1,421,174. ROLLING RADIATOR SHUTTER. SHERMAN R. COLLINGWOOD, Wichita, Kans. Filed Jan. 17, 1921. Serial No. 437,842. 1 Claim. (Cl. 257—132.)



The combination, with the radiator, tie-rod and dash of a motor-car, of a vertically slidable rolling shutter positioned closely in front of the radiator, a spring-actuated roller attached to said shutter, a cable attached to the top of said shutter, a chain connected to said cable, a forward guide-pulley having a shank inserted in the front of the radiator near the top of the same, a rear guide-pulley having a clip mounted on said tie-rod and means for adjusting the chain on the dash.

1,421,175. HAYSTACKER. CARSON C. COPE, Windsor, Colo., assignor, by mesne assignments, to The Windsor Manufacturing Company, Windsor, Colo., a Corporation of Colorado. Filed Feb. 27, 1920. Serial No. 361,836. 18 Claims. (Cl. 214—141.)

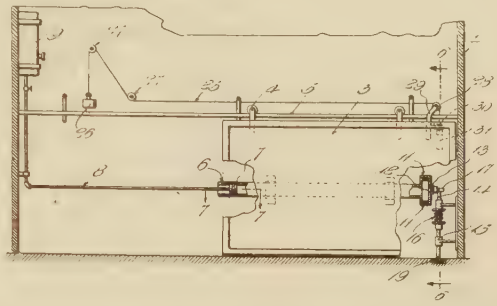


1. In a stacker, a main frame, a lifting frame pivotally attached thereto, extension arms slidably connected to said lifting frame, a stacker head on said arms, means to lift said arms and head, an extension link pivoted to each extension arm, and a slidable lost motion connection between one end of said links and the frame.

1,421,176. METHOD OF COOLING LIQUIDS AND CHARGING THE SAME WITH GAS BY THE USE OF SNOWLIKE CARBONIC ANHYDRIDE. VICTOR CRÉMIEU, Paris, France. Filed Nov. 11, 1920. Serial No. 423,440. 2 Claims. (Cl. 99—11.)

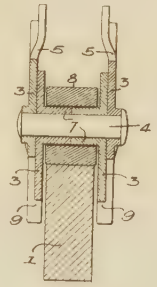
1. A method for simultaneously cooling and charging a liquid with gas, consisting in maintaining within said liquid and in contact therewith a suitable quantity of snow-like carbonic anhydride.

1,421,177. DOOR-OPERATING MECHANISM. FRED W. CROSBY, Garnett, Kans. Filed Nov. 1, 1920. Serial No. 421,067. 4 Claims. (Cl. 268—8.)



1. In combination, a door frame, a door slidable toward one vertical side of said frame, a vehicle-operated valve-opening member stationarily mounted at said side of the frame, a horizontal fluid pressure cylinder rigidly mounted on said door and having an air escape opening in the end adjacent said side of the frame, a valve carried bodily by said cylinder for normally closing said opening, means for supplying fluid pressure to said cylinder, a fixed piston within said cylinder whereby the fluid pressure will act to force the door toward said side of the frame and close the same, said valve having an operating part in operative relation with said valve opening member when said door is closed, whereby operation of said member will open said valve and release the air from said cylinder, means for automatically opening the door when the fluid pressure is released, and normally raised downwardly movable means automatically operable to engage said valve operating part and close the valve when the door is completely opened.

1,421,178. CHAIN. CHARLES CLARANCE DAVIS, Richmond, Va. Filed July 28, 1920. Serial No. 399,644. 2 Claims. (Cl. 198—108.)

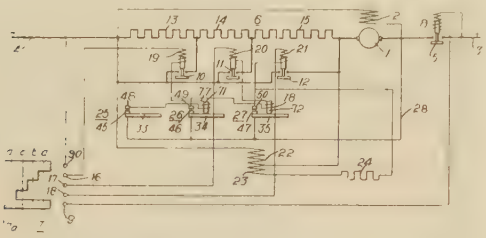


1. The combination of a narrow rail; a chain adapted to travel over said rail, said chain consisting of a series of links pivotally connected, the side members of the links being spaced apart a greater distance than the width of the rail and extending on each side of the rail; and a single series of rollers mounted on the pivots of the links of the chain and bearing upon the rail.

1,421,179. CONTROL SYSTEM AND SWITCH MECHANISM THEREFOR. RAY E. DE CAMP, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 16, 1918. Serial No. 262,807. 6 Claims. (Cl. 172—288.)

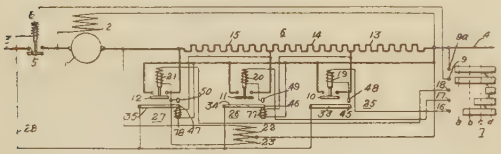
6. The combination with an electric motor having a resistor, of a pair of switches for short-circuiting said resistor each of which has an actuating coil, a pair of relays adapted to close to energize said coils, means for preventing the closing of one of said relays, a coil in

series with the coil of one of said switches adapted to be energized to render said preventing means inoperative, an energizing coil in parallel circuit with said resistor



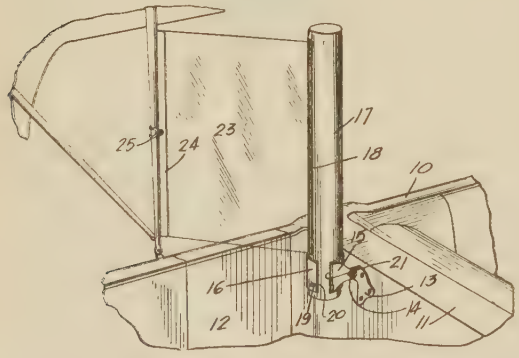
for delaying the closing of said relays, and means for maintaining said relays closed after said resistor becomes short-circuited.

1,421,180. SYSTEM OF CONTROL. RAY E. DE CAMP, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 12, 1919. Serial No. 296,601. 5 Claims. (Cl. 172—288.)



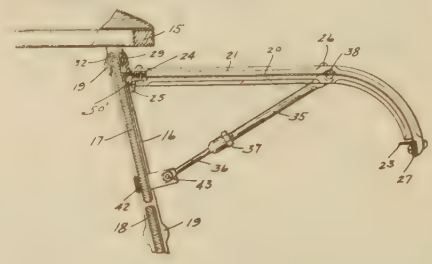
5. The combination with an electric motor having a resistor associated therewith, of a pair of switches for short-circuiting successive sections of said resistor, a pair of relay members, one for each of said switches, having a controlling coil in circuit with said motor and the second of said relay members to operate having a second controlling coil connected between points of said resistor, and means for maintaining the second of said switches to operate in operative position.

1,421,181. TONNEAU WINDSHIELD. CHARLES I. DECKER, Sherman, Calif. Filed July 7, 1921. Serial No. 482,958. 1 Claim. (Cl. 296—85.)



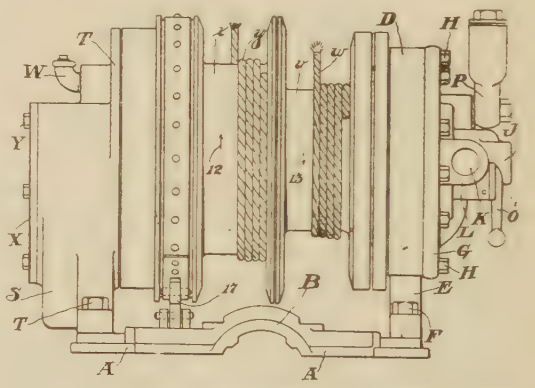
In a tonneau windshield, an adjustably mounted housing provided with a slot, a spring actuated roller arranged for operation within said housing, a flexible shield member secured to said roller and adapted to wind thereupon and to unwind therefrom through said slot, a slotted bracket slidably receiving said housing, a bayonet slot formed in the bracket and communicating with the slot thereof, and a pin fixed on the housing and adapted to engage within the bayonet slot for retaining the housing in elevated position within the bracket.

1,421,182. STORM AND GLARE SHIELD. HAL DICKINSON, Minneapolis, Minn., assignor to Dickinson and Company, Inc., Minneapolis, Minn., a Corporation of Minnesota. Filed Sept. 26, 1921. Serial No. 503,240. 4 Claims. (Cl. 296—95.)



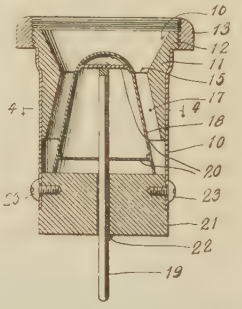
1. A storm and glare shield having a marginal frame with a downturned outer portion, a transparent or translucent body mounted in the frame with its outer portion held turned down thereby, and means for adjusting said shield into substantially horizontal position with its outer portion extending downwardly.

1,421,183. HOIST. JESSE DITSON, Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed July 20, 1921. Serial No. 486,097. 15 Claims. (Cl. 254—185.)



1. In a hoist, the combination of a frame, a driving shaft, two drums concentric with the driving shaft, a motor connected to operate the driving shaft, and means for automatically disconnecting one drum and connecting the other drum to the driving shaft in accordance with the direction of rotation of the driving shaft.

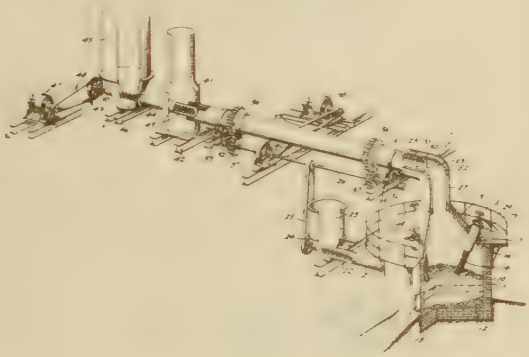
1,421,184. CHECK VALVE. JACOB DOME, York, Pa. Filed Nov. 2, 1920. Serial No. 421,295. 1 Claim. (Cl. 251—127.)



A device of the class described comprising a cylindrical casing, a circular member secured to said casing having a

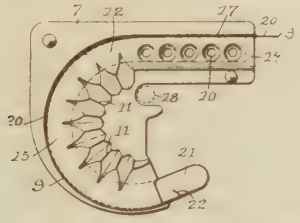
restricted opening and provided with outwardly flared ends, a threaded annular flange extending from the upper end of said member and having a shoulder abutting the upper end of said casing, an interiorly threaded collar engaging said threaded annular flange, a relatively thick cross bar removably secured to said casing at the lower end thereof and provided with a vertical opening, a hollow frusto-conical shaped valve member engaging said bar and provided with a rounded upper end, and a valve stem secured to said valve member and extending through the opening in said bar.

1,421,185. ELECTRIC FURNACE. ROY A. DRISCOLL, Great Falls, Mont. Filed Dec. 5, 1919. Serial No. 342,680. Renewed Nov. 1, 1921. Serial No. 512,107. 6 Claims. (Cl. 204—64.)



1. The combination with an electric furnace of a gas outlet in the roof of said furnace, means for injecting air into said outlet, a rotatably mounted tube connected to said outlet, said tube being positioned with its axis at an angle to the horizontal, a screw conveyor rotatably mounted in the upper end of said tube, a container associated with said screw conveyor, means for rotating said screw conveyor so as to transfer charging material from said container to the upper end of said tube, and means for rotating said tube so that said charging material will be delivered to said electric furnace.

1,421,186. WOOD-BENDING DEVICE. CYRIL DUFF, Providence, R. I. Filed Aug. 16, 1921. Serial No. 492,677. 5 Claims. (Cl. 144—254.)

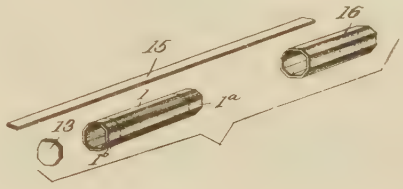


1. In a wood bending device, a body member having a work distorting bore for bending wood, an auxiliary flexible follower adapted to be inserted with the wood into said work distorting bore, and to move with the wood into the work distorting bore for the purpose as described.

1,421,187. EXPLOSIVE TABLET FOR RAILWAY SIGNAL TORPEDOES. FRANK DUTCHER, Versailles, Pa., assignor to Central Railway Signal Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Oct. 18, 1918. Serial No. 258,712. 5 Claims. (Cl. 52—23.)

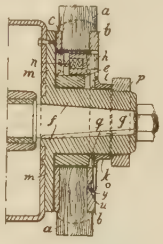
5. An explosive dry tablet for railway signal torpedoes complete within itself, comprising a body-portion, composed of a quick burning explosive composition which cannot be exploded by concussion, and an explosive compound which can be reliably ignited by concussion applied to the body of the tablet, for the purpose described.

1,421,188. RAILWAY SIGNAL TORPEDO. FRANK DUTCHER, Versailles, Pa., assignor to Central Railway Signal Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Apr. 25, 1921. Serial No. 464,110. 12 Claims. (Cl. 246—487.)



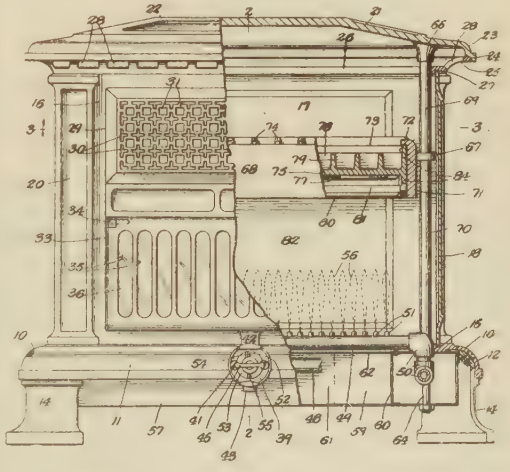
7. A railway signal torpedo comprising a wrapper having a plurality of flat sides, the wrapper provided with extended end portions crimped inward, an explosive within the wrapper, an open ended case embracing the wrapper, and a rail-engaging member carried by the torpedo.

1,421,189. DETACHABLE WHEEL FOR AUTOMOBILES. FREDERICK ARTHUR ELLIS, Jr., London, England. Filed Oct. 14, 1921. Serial No. 507,710. 5 Claims. (Cl. 301—9.)



1. The combination, with an ordinary automobile road wheel having a radially slotted reinforced bore, a false hub secured to the hub of said wheel, and radially disposed hollow fins on said false hub coacting with slots in said reinforced bore of means for locking a wheel on said false hub.

1,421,190. GAS HEATER. CHARLES E. EPWORTH, Brooklyn, N. Y. Filed Apr. 8, 1920, Serial No. 372,142. Renewed Apr. 11, 1922. Serial No. 551,472. 15 Claims. (Cl. 126—90.)



1. A heater of the class described comprising a base member, a top member, front, back and side wall members mounted between and interlocking with the base and top

members, bolts mounted in the corner portions of the top and base members for securing said parts together, a baffling device mounted in connection with said bolts within the heater and independent of the front, back and side walls thereof, the base member being open at the top, a burner device mounted within the bottom portion of the heater and at a predetermined distance below said baffling device, and an air box mounted within the base member and below said burner device and into and through which air is adapted to pass to said burner device.

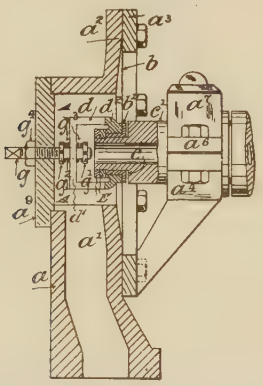
1,421,191. PROCESS OF REMOVING PHOSPHORUS FROM VANADIUM SOLUTIONS. ALBERT N. ERICKSON, Elmhurst, N. Y., assignor to Union Carbide & Carbon Research Laboratories, Inc., a Corporation of New York. Filed Oct. 5, 1921. Serial No. 505,621. 7 Claims. (Cl. 23—13.)

1. Process of removing phosphorus from vanadium solutions which comprises adjusting the hydrogen ion concentration to about that of very dilute acetic acid, and then precipitating phosphorus as a phosphate.

1,421,192. INSULATING CEMENT OR MORTAR. ARTHUR S. ELSENBAST and WALTER L. JORDAN, New York, N. Y. Filed Mar. 19, 1921. Serial No. 453,740. 4 Claims. (Cl. 106—18.)

1. An insulating cement comprising powdered diatomaceous earth, clay and starch.

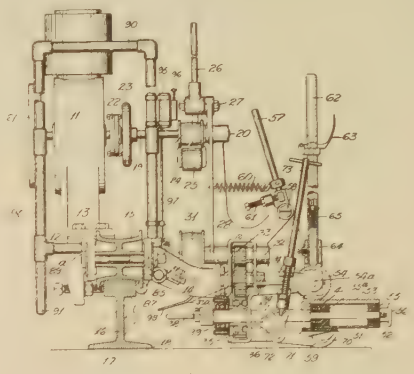
1,421,193. SUPPORT OR BEARING FOR DRYING CYLINDERS AND SUCH LIKE. WILLIAM PARSONAGE EVANS, Manchester, England. Filed Sept. 25, 1920. Serial No. 412,845. 2 Claims. (Cl. 286—11.)



1. An attachable doll head bearing for steam heated drying cylinders, comprising a flexible diaphragm, a face on the doll head casting for said diaphragm, an annular clamping ring for clamping said diaphragm, bolts for securing said ring in position, said diaphragm having a central aperture therein, slidable packing rings clamping the center of the diaphragm, a hollow axle on the drying cylinder end, a shoulder on the axle forming a reduced portion on the axle, said construction allowing steam pressure to act on the outer face of the diaphragm to cause the central rings to pack said axle.

1,421,194. TRACK-DRILLING MACHINE. EDWARD A. EVERETT, New York, N. Y., assignor to Nande Corporation, a Corporation of New York. Filed Jan. 15, 1920. Serial No. 351,577. 11 Claims. (Cl. 77—8.)

1. A comparatively heavy drilling machine for railway track resting upon the track rails, a drilling mechanism incorporated in said machine operating a drill spindle, a handle for sliding said drill spindle into positive against the rail to be drilled and an independent handle for feeding said drill when drilling said rail, said feeding

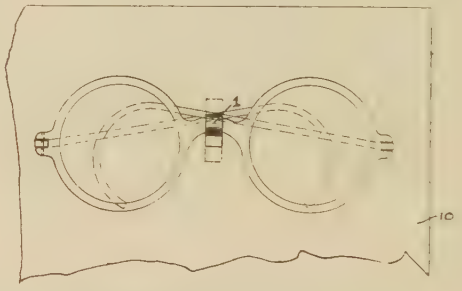


and sliding handles being operative without changing the position of said drilling machine relative to said rail.

1,421,195. METHOD FOR REMOVING INK FROM PRINTED PAPER. HAROLD R. EYRICH, Phoenixville, Pa., and JOHN A. SCHREIBER, Chicago, Ill., assignors to The Paper De-Inking Co., Chicago, Ill., a Corporation of Illinois. Filed Apr. 27, 1921. Serial No. 465,026. 9 Claims. (Cl. 92—3.)

1. The process of deinking paper which consists in subjecting the paper to an alkaline solution of bentonite.

1,421,196. DISPLAY CARD. WATSON D. FENNIMORE, San Francisco, Calif. Filed Apr. 12, 1920. Serial No. 373,178. 1 Claim. (Cl. 211—34.)

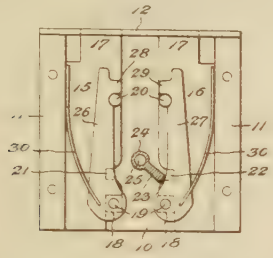


In combination with a perforated display card of an article supporting clip therefor, comprising a strip of flat metal having a resilient hook bent on one end thereof and adapted to removably support an article between it and said card; an intermediate portion bent at right angles to said strip to form a shoulder, rebent to a plane substantially in alignment with said strip and adapted to pass through the perforated card and having the end thereof bent at substantially right angles to said aligned portions to form a shoulder, and disposed on opposite sides of the aligned portions of said strip; the space between said shoulders forming a socket adapted to receive a cross section of said display card.

1,421,197. LOCK. ANTONIO FERRARA, Torrington, Conn. Filed Jan. 2, 1920. Serial No. 348,896. 1 Claim. (Cl. 70—74.)

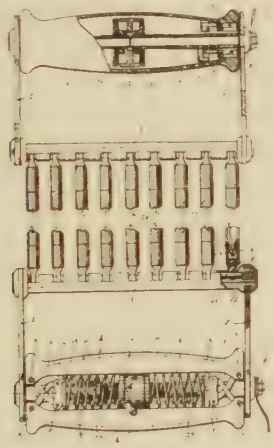
A lock comprising a casing having a double key-hole therein, a pair of bolts slidable within said casing and adapted to be projected therebeyond, the inner edges of the bolts being formed with key-bit receiving recesses, in combination with a key having a bit engageable within either of said recesses whereby to move either bolt by movement of the key in one direction, the key being reversi-

ble whereupon rotation thereof in the other direction will move the other bolt, and spring-pressed means for holding the bolts in either extended or retracted position, said means including members pivoted within the lock casing



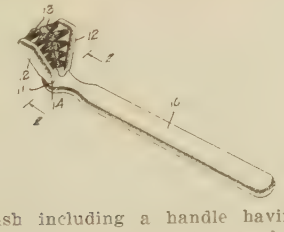
and having lateral extensions, and pins on the bolts engageable either in advance of or behind said extensions, said members extending in the path of movement of the key bit and being swung thereby into position with the extensions disengaging the pins.

1,421,198. SPRING STRETCHER WITH COMPRESSIBLE GRIPS FOR RATIONALLY DEVELOPING THE HUMAN PHYSICAL STRENGTH. MARIO CESARE FIDORA, Turin, Italy. Filed Nov. 21, 1919. Serial No. 339,773. 6 Claims. (Cl. 46—69.)



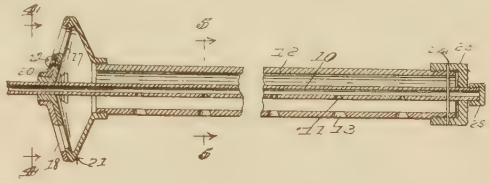
1. In an exercising apparatus, a compressible grip comprising two oppositely disposed handles, two spiral springs arranged longitudinally of and between said handles, compression plates arranged at the ends of the springs, cross rods connecting the plates and handles, guide tubes arranged between the springs, and means for adjusting the tubes to regulate the tension of the springs.

1,421,199. TOOTHBRUSH. WILLIAM S. FIELD, New York, N. Y., assignor, by direct and mesne assignments, to Sanitas Twin Tooth Brush Corp., New York, N. Y., a Corporation of New York. Filed Aug. 9, 1921. Serial No. 490,935. 1 Claim. (Cl. 15—167.)



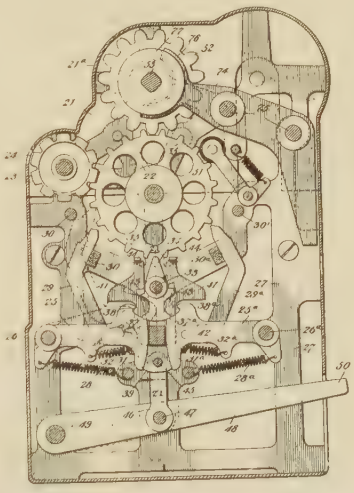
A toothbrush including a handle having a pair of threaded sockets therein intersecting the front surface of said handle, brush backs having threaded tongues detachably fitting said sockets and projecting from said front surface, said backs having opposed bristles.

1,421,200. SMOKE CONSUMER. LIBERTY K. FLANAGAN, Kansas City, Mo. Filed Nov. 25, 1919. Serial No. 340,583. 1 Claim. (Cl. 110—60.)



An apparatus for consuming smoke in furnaces consisting of a steam jet tube and an encasing air conductor, the latter being provided at one end with a head having air inlet openings and an adjustable register for controlling the extent of exposure of said openings, and having at the other end a removable cap having a transverse pin extending through said conductor and jet tube, said jet tube being extended axially through said head and cap and being fitted beyond the latter with a removable closure, and said jet tube and conductor being provided with transversely registering orifices to permit the discharge of steam and air through the corresponding orifices of the tube and conductor.

1,421,201. WRITING-ADDING MACHINE. HARRY A. FOOTHORAP, Harrisburg, Pa., assignor to Elliott-Fisher Company, Harrisburg, Pa., a Corporation of Delaware. Filed Nov. 4, 1912. Serial No. 729,383. 104 Claims. (Cl. 235—59.)



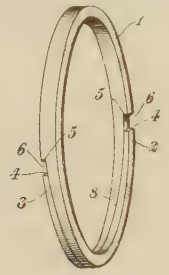
24. In a writing adding machine, the combination with a frame and carriage, of a register movable with the carriage and including denominational members and carrying mechanism, means for operating the register, a motor operated restoring means for the carrying mechanism, and means whereby said motor operated restoring means will be automatically controlled by the carriage.

81. In a register, the combination with a series of denominational members, of spring urged carrying and locking mechanism, operative to engage and carry the denominational members in either of two directions for addition or subtraction and to positively lock the members carried against movement in either direction.

103. In a writing-adding machine, the combination with a frame and carriage, of computing devices mounted on the frame and carriage respectively, one of said computing

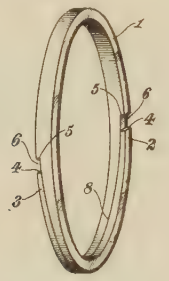
devices being reversible, means for simultaneously operating said computing devices, and variable means for automatically reversing the reversible computing device.

1,421,202. PISTON RING. JOHN W. FORD, St. Louis, Mo., assignor, by mesne assignments, to Spyroseal Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 8, 1917. Serial No. 141,110. 11 Claims. (Cl. 74—109.)



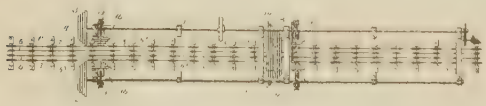
8. An integral cast iron long lap piston ring having its ends overlapping for an extended part of its circumference and in substantially mutual engagement throughout their parting.

1,421,203. METHOD OF MAKING PISTON RINGS. JOHN W. FORD, St. Louis, Mo., assignor, by mesne assignments, to Spyroseal Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 8, 1917. Serial No. 141,111. 16 Claims. (Cl. 29—156.6.)



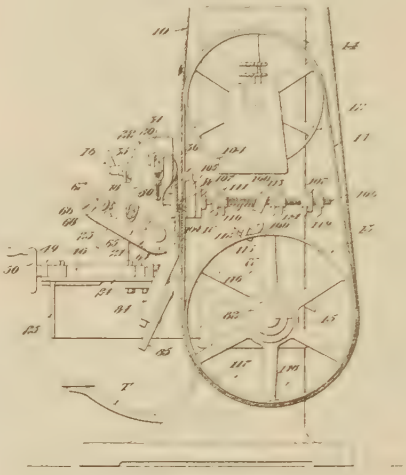
1. The method of making piston rings, comprising, inverting the ring, heating the ring and reinverting the ring.

1,421,204. WOODWORKING MACHINERY. LOUIS FRITZ, Memphis, Tenn. Filed July 9, 1920. Serial No. 394,987. 1 Claim. (Cl. 143—22.)



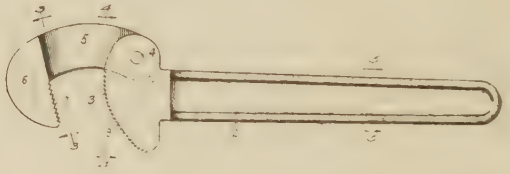
In saw mill apparatus, the combination with a battery of band saws, and means for presenting a log to said saws, of stepped cones carrying planing knives disposed to plane the edges of boards severed by said saws.

1,421,205. WORK HOLDING AND FEEDING DEVICE FOR GRINDING OR POLISHING MACHINES. RUFUS W. FULLER, Deerfield, Mass., assignor to Production Machine Company, Greenfield, Mass., a Corporation of Massachusetts. Filed June 14, 1920. Serial No. 388,742. 28 Claims. (Cl. 51—137.)



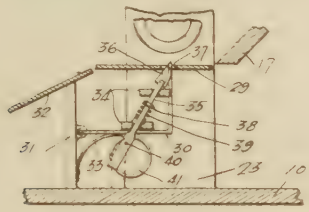
1. In a machine for grinding or polishing cylindrical articles, an abrasive element moving in a direction substantially perpendicular to the axis of the work arranged to engage one side of the work, means for supporting the abrasive element and driving it to grind or polish the work, means for supporting the work including an endless belt for engaging the opposite side of the work, and means for supporting said belt and driving it continuously in the same direction to rotate the work while it is being ground or polished.

1,421,206. AUTOMATICALLY-ADJUSTABLE WRENCH. ISAAC J. GALBRAITH, Chicago, Ill. Filed Sept. 8, 1919. Serial No. 322,335. 1 Claim. (Cl. 81—98.)



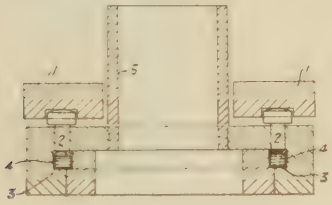
A wrench, comprising a handle having a head provided at its end with a gripping face, a freely movable arm pivoted to the head at one side of the center line of the handle and provided at its extreme outer end with a straight gripping face, said gripping face on the head gradually curving from a point beyond the pivotal point of said arm towards and intersecting an axis line which passes through said pivotal point and which is perpendicular to said center line, the angularity between the two gripping faces when the wrench is in wide open position being such as to afford an unobstructed space between them whereby an article may be engaged between the gripping faces by a lateral striking blow of the wrench.

1,421,207. FRUIT CUTTER. CHARLES F. GARMAN, Ventura, Calif. Filed Aug. 31, 1921. Serial No. 497,339. 8 Claims. (Cl. 146—6.)



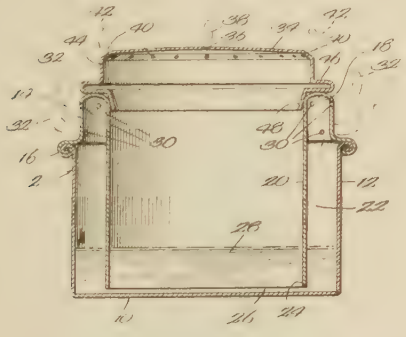
1. In a fruit cutting machine, a cutting table, means for engaging and rotating the fruit delivered onto said table, and a reciprocatory blade for engaging and splitting the fruit while it is being rotated.

1,421,208. BEARING. KENNETH GAULDIE, Glasgow, Scotland. Filed June 10, 1920. Serial No. 387,810. 8 Claims. (Cl. 64—25.)



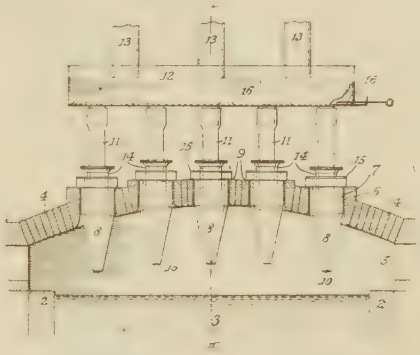
1. In a bearing, in combination, segmental bearing surfaces, a confined seating including a body of rubber to which the force exerted on the segmental bearing surfaces is transferred for equalization, and pistons interposed between said pads and said seating.

1,421,209. ALCOHOL HEATER. FRED W. GEHRER, Chicago, Ill. Filed Oct. 29, 1921. Serial No. 511,432. 3 Claims. (Cl. 158—97.)



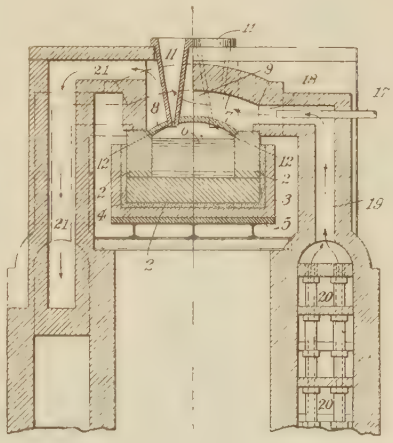
1. A cup open at the top and adapted to receive burnable and vaporizable liquid there being formed in the cup and adjacent to the wall thereof an annular recess into which said vaporizable liquid in the bottom of the cup may flow and close access to said recess from the cup, there being in the external wall of the cup near its top perforations through which vapor coming from said internal recess may pass and be thereafter lighted, and a cover adapted to close the top of said chamber or cup, said cover itself being provided with small perforations for the escape and burning of combustible material in vaporized form delivered from the cup.

1,421,210. METHOD AND APPARATUS FOR THE MANUFACTURE OF GLASS. ROBERT GOOD, Washington, Pa., assignor to Hazel Atlas Glass Co., a Corporation of West Virginia. Filed Dec. 1, 1919. Serial No. 341,732. 5 Claims. (Cl. 49—54.)



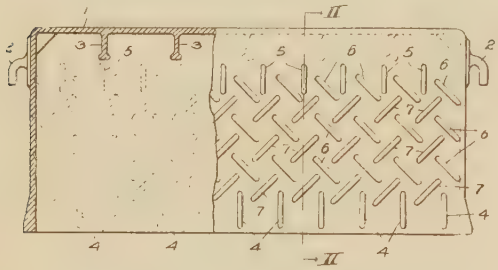
1. The method of melting glass making material which comprises introducing the material into a melting tank wherein the material is fed vertically down through the tank in a receptacle of conical shape, wherein by reason of the lessening diameter of the receptacle the material is subjected to an ever increasing temperature until fusion is effected and the material runs by gravity into the bath in the tank.

1,421,211. MANUFACTURE OF GLASS. ROBERT GOOD, Washington, Pa., assignor to Hazel Atlas Glass Co., a Corporation of West Virginia. Filed Dec. 1, 1919. Serial No. 341,733. 2 Claims. (Cl. 49—54.)



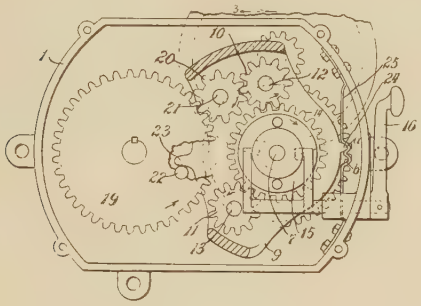
1. The method of continuously melting glass making material, which comprises melting the material in a vertically depending cone-shaped receptacle by heat out of contact with the material until it becomes semi-molten and flows into a tank, heating it in a tank by a heating medium out of contact with the material until it is thoroughly melted and refined and continuously presenting a supply of refined glass to be withdrawn from the tank for conversion into glassware.

1,421,212. ANNEALING BOX. HARRY H. GOODSELL, Vandergrift, Pa. Filed Sept. 22, 1921. Serial No. 502,426. 7 Claims. (Cl. 263—49.)



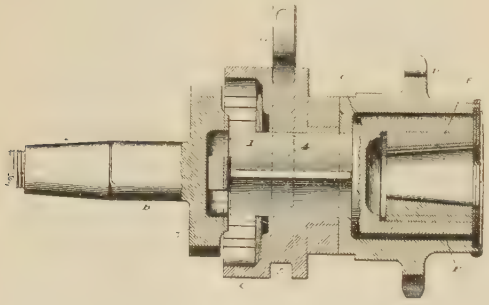
1. An annealing box having a plurality of rows of lengthwise separated reinforcing ribs on the outer surfaces thereof, said ribs being arranged in staggered relation and the ribs in each row extending lengthwise at an angle to the length of the ribs in an adjacent row.

1,421,213. REVERSING MECHANISM. ADAM M. GOODWIN, Wilkinsburg, Pa. Filed Aug. 9, 1920. Serial No. 402,272. 8 Claims. (Cl. 74—50.)



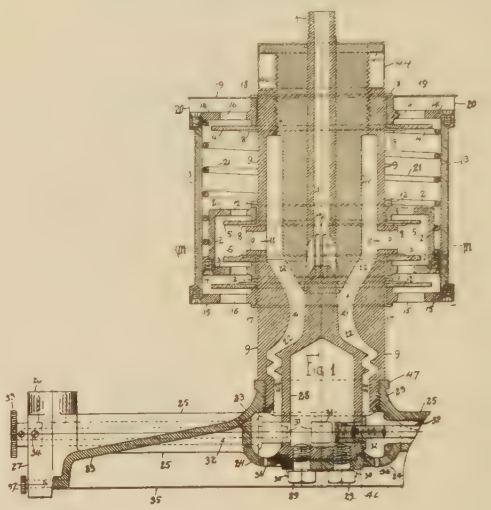
1. Reversing mechanism comprising a driving shaft, a gear on said shaft, a movable bracket, a pair of driving pinions on said bracket and actuated in mutually opposite directions by said driving gear, a driven shaft, a gear thereon, and means on said driven gear arranged to contact with and shift said bracket for alternately engaging each of said pinions with said driven gear.

1,421,214. POWER TAKE-OFF. DAVID H. GRUVER, Augusta, Kans.; J. R. Gruver, executor of said David H. Gruver, deceased, assignor to J. R. Gruver, Augusta, Kans. Filed Nov. 12, 1918. Serial No. 262,198. 2 Claims. (Cl. 74—7.)



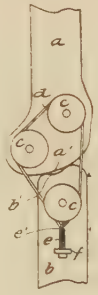
1. In a power take-off from driving shafts, the combination with a hub adapted to be driven by such shaft, a driven shaft in alignment therewith, an intermediate shaft one end of which is hollowed and surrounds and has a driving connection with said hub, the other end of which intermediate shaft being formed of an angular spindle, transmission means loosely mounted for rotation on the hollow end of the intermediate shaft, and a clutch member mounted on the angular spindle of the intermediate shaft, and driven thereby, but slidable thereon to engage and drive either said driven shaft or said transmission means.

1,421,215. WICKLESS OIL BURNER FOR LIGHTING AND HEATING. DAVID GUELBAUM, Syracuse, N. Y. Filed Feb. 26, 1921. Serial No. 448,060. 5 Claims. (Cl. 48—161.)



1. A wickless oil-lighting and heating appliance, comprising an oil and air mixing valve, an air-circulation starter, a pedestal with conveying channels, means for closing and opening the entrances to said channels, substantially as and for the purposes specified.

1,421,216. ARTIFICIAL KNEE JOINT. ALFRED HABERMANN, Munich, Germany. Filed Feb. 5, 1921. Serial No. 442,875. 4 Claims. (Cl. 3—2.)



1. An artificial knee joint, comprising upper and lower leg members having complemental abutting end surfaces, and means for holding said surfaces in frictional sliding engagement.

1,421,217. ELECTRIC STORAGE BATTERY. EDWARD HACKING, Pawtucket, R. I. Filed May 11, 1922. Serial No. 560,230. 5 Claims. (Cl. 204—29.)

4. An electrolyte for electric storage batteries consisting of a gelatinous mass of sulphuric acid, silicate of soda, and bisulphate of mercury, and pregnated with mineral oil.

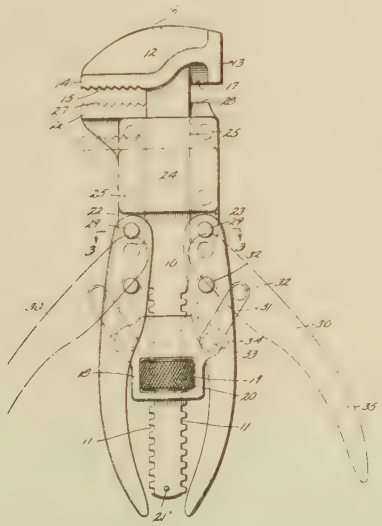
1,421,218. MELTING FERROMANGANESE. JOHN H. HALL and RICHARD D. JORDAN, High Bridge, N. J., assignors to Taylor-Wharton Iron and Steel Company, High Bridge, N. J., a Corporation of New Jersey. Filed July 15, 1920. Serial No. 396,414. 5 Claims. (Cl. 75—45.)

1. The method of melting ferro-manganese, which consists in charging a cupola with successive layers of ferro-manganese and coke, and with an element capable of neutralizing destructive chemical bases produced by the oxidation of the ferro-manganese tapping at frequent intervals, and replenishing the charge so as to keep the cupola at its capacity at all times.

1,421,219. ATTACHMENT FOR MEDICINE BOTTLES. ROBERT HARMON, New York, N. Y. Filed Mar. 9, 1921. Serial No. 450,831. 4 Claims. (Cl. 40—11.)

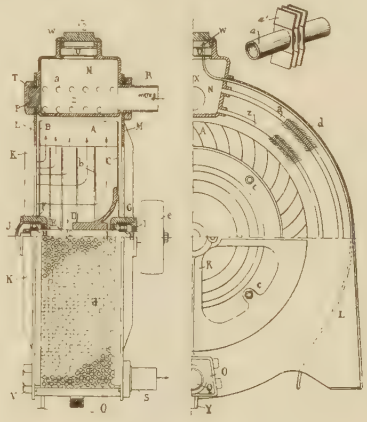
4. A label holder for bottles comprising an attaching clip for engaging the neck of a bottle, a depending body plate formed on the clip adapted to lie in facial abutment with the body portion of the bottle, and outwardly extending struck out tongues formed on the body plate and arranged to detachably receive a label.

1,421,220. COMBINATION TOOL. ALBERT JASPER HART, Cromwell, Ind., assignor of three-fourths to Edwin E. Kline, William R. Wright, and Fred N. Hunt, all of Cromwell, Ind. Filed Apr. 10, 1920. Serial No. 372,744. 4 Claims. (Cl. 81—88.)



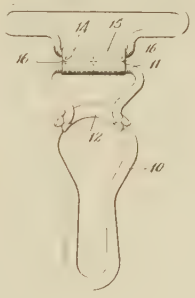
3. A tool comprising a shank having a fixed head, a member slidable on said shank and consisting of oppositely arranged side plates and separately formed bars arranged at the edges of the shank between the side plates, means passing through the side plates and the bars for connecting the same, the forward portions of said bars being extended beyond said side plates and formed with work-engaging means cooperating with said head, and an adjusting device for said sliding member.

1,421,221. RADIATOR FOR EXPLOSION ENGINES. EMILE HARTER, Paris, France. Filed Dec. 13, 1919. Serial No. 344,518. 4 Claims. (Cl. 257—39.)



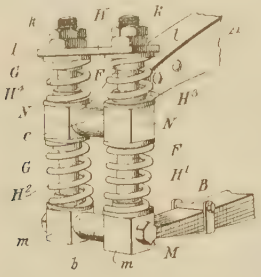
1. A radiator for explosion engines, comprising a centrifugal fan turbine, tubes concentrically arranged around said turbine, means for circulating cooling water through said tubes, gills on the tubes so shaped that the air leaving the fan turbine is guided without shocks or eddies to its exit passage from the radiator, said gills forming the heat exchanging surface of the radiator, together with a series of annular partitions of different internal diameters, arranged at the intake to the movable vanes of the turbine, concentrically to the axis of the latter and parallel to its plane of rotation, and serving to distribute the air uniformly over the whole area of the vanes and to oppose the sliding of the air towards the disc of the turbine.

1,421,222. LOOP FOR HOSE SUPPORTERS AND THE LIKE. JOHN F. HARTNETT, Bridgeport, Conn., assignor to The Warner Brothers Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Dec. 5, 1921. Serial No. 519,993. 3 Claims. (Cl. 24—245.)



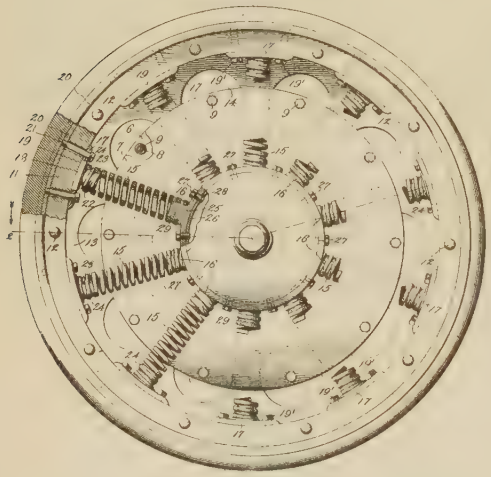
1 In a device of the character described, two loops and a member connecting said loops, one of said loops including a pair of outwardly facing shoulders, and said connecting member including abutments embracing said shoulders.

1,421,223. SHOCK ABSORBER FOR VEHICLES. RALPH E. HASEMEIER, Shreveport, La. Filed Dec. 4, 1920. Serial No. 428,315. 2 Claims. (Cl. 267—29.)



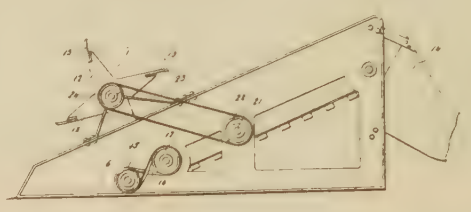
1. The combination with the frame of a vehicle of an axle, a spring supported on the axle and link-connected at one end with the frame, and a shock absorber comprising two vertical posts spaced apart and having cross-pieces connecting them at their upper and lower ends, an intermediate floating cross-piece, springs on the posts both above and below said intermediate cross piece and which bear on the upper and lower cross-pieces, and pivotal connections between the axle-supported spring, the vehicle frame and the shock absorber, said connections being pivoted to the floating cross-piece between the upper and lower springs carried by the posts and to the lower cross-piece below the lower post springs.

1,421,224. SPRING-SUPPORTING MECHANISM FOR SPRING WHEELS. JOHN HATFIELD, Brooklyn, N. Y. Filed Dec. 31, 1920. Serial No. 434,324. 3 Claims. (Cl. 152—52.)



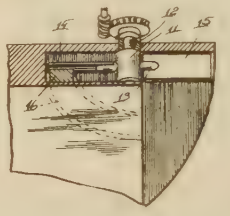
3. A detachable unit for a resilient wheel comprising an element adapted to be attached to the hub of a wheel, an element adapted to be attached to the rim of the wheel, the said elements each being provided with a plate having flanged portions adapted to fit circumferentially over and adapted to be connected to the hub and rim respectively, a threaded shank portion projecting radially from each plate and a helical spring interposed between said elements, the convolutions of the spring being received by the said threaded shank portions, the helical spring and its two elements comprising a manipulative unit.

1,421,225. SNOWPLOW. MATHIAS HAUPT, Roscoe, Minn. Filed Aug. 9, 1920. Serial No. 402,132. 4 Claims. (Cl. 198—7.)



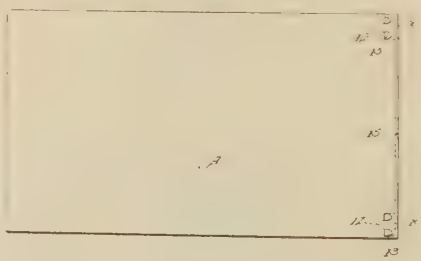
1. An apparatus of the class described comprising a supporting frame, having an upwardly and rearwardly extending channel part, shovel means in the lower part of said channel part comprising parallel strips and means for reciprocating the strips and conveying means in the upper part of the channel part.

1,421,226. SCOW OR FLOAT FOR HOUSE BOATS AND MEANS FOR PROPELLING SAME. GEORGE C. HAWLEY, Rochester, N. Y. Filed Sept. 20, 1921. Serial No. 502,068. 1 Claim. (Cl. 115—52.)



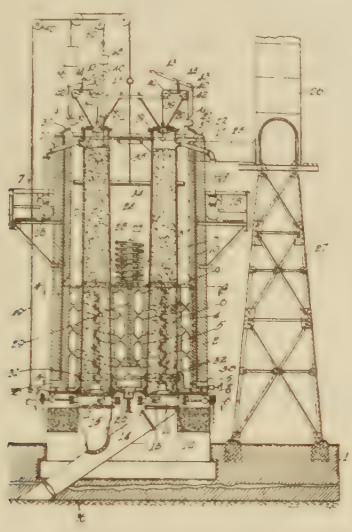
A float for a house boat, having its under side cut away on each side thereof, a series of horizontal pockets leading in from the cut away portion of said float, toward the middle thereof, a pair of paddles mounted to rotate in each of the horizontal pockets, said paddles being mounted diametrically opposite to each other and positioned 180 degrees from each other, said paddles being adapted to alternately project out of said pockets toward the sides of said float on the under side thereof and in the cut-away portions thereof, a cam mounted in said pockets on the bottom and near the inner ends thereof, said cam being adapted to make contact with one of said paddles of each pair and rock said paddle from the vertical to a horizontal position.

1,421,227. ENVELOPE. HARRY HEADING, Hanging Rock, Ohio. Filed Apr. 18, 1921. Serial No. 462,189. 2 Claims. (Cl. 229—86.)



1. In an envelope, opening means comprising a pair of metallic members disposed within and having penetrating engagement with the envelope at opposite corners of one end thereof, and a wire member disposed within said end and having its ends connected with said metallic members.

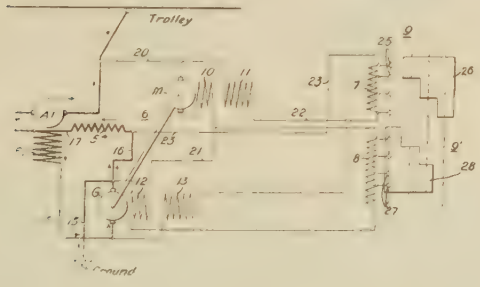
1,421,228. APPARATUS FOR TREATING OIL-BEARING SHALE. GOTTLIEB A. HEIMBUCHER, Chicago, Ill. Filed Sept. 3, 1918. Serial No. 252,313. 12 Claims. (Cl. 196—19.)



1. Apparatus for the purpose set forth including a furnace, a combustion chamber in the lower end thereof, a plurality of retorts mounted within the furnace above the combustion chamber, a wall having helical flues surrounding each of said retorts at its lower end portion, said walls being spaced from the outer wall of the furnace, segmental walls meeting at their ends and spaced from the outer wall of the furnace partially surrounding each of the retorts at the upper end portions thereof, the space enclosed by said segmental walls forming a heating chamber connected by said helical flues with the combustion chamber, and a stack connected with said heating chamber.

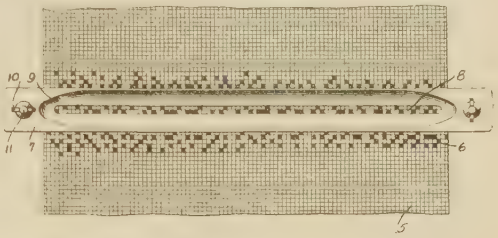
11. In apparatus of the kind specified, retorts each provided in its lower end with a rotatable grate for supporting shale, a tapered perforated pipe projecting upwardly from the center of each grate, means on the exterior of each pipe for agitating the surrounding shale as said grate is rotated, and means manually operable from the exterior of each retort for actuating its grate.

1,421,229. SYSTEM OF CONTROL. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 18, 1919. Serial No. 305,104. 7 Claims. (Cl. 172—179.)



1. The combination with a momentum-driven dynamo-electric machine having an armature and a field winding, of means for exciting said field winding to effect regenerative operation of said machine, and means comprising energizing circuits for said exciting means connected to inherently vary the voltage of said exciting means to maintain regenerative operation only unless a predetermined machine voltage is reached.

1,421,230. WORK HOLDER. ARTHUR B. HENDERSON, Hurley, N. Mex. Filed Apr. 28, 1921. Serial No. 465,311. 2 Claims. (Cl. 223—54.)

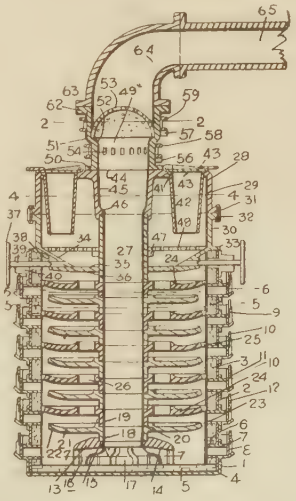


1. A work holder, including a bar formed with a longitudinal opening having inwardly inclined walls, and means for retaining a piece of goods in engagement with one of the faces of said bar.

1,421,231. MACHINE ELEMENT. PHILIP E. HENNINGER, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 5, 1919. Serial No. 315,388. 5 Claims. (Cl. 74—28.)

1. A machine element comprising a hub-portion having a periphery so grooved as to provide waved projection portions and superimposed layers of fibrous material impregnated with a binder molded thereon.

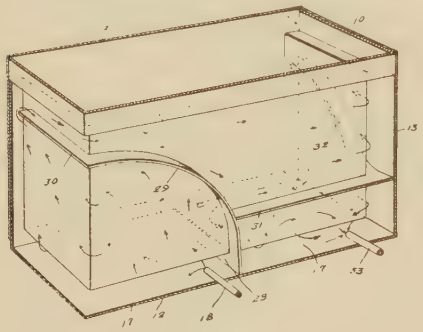
1,421,232. SULPHUR BURNER. ALBERT GUSTAV HINZKE, Thunder Bay, Ontario, Canada. Filed June 17, 1921. Serial No. 478,394. 6 Claims. (Cl. 23—1.)



1. A sulphur burner comprising a body or shell having an open upper end, a melting kettle provided with feed

supply orifices supported upon the open upper end of the shell, valve controlled means for permitting the flow of sulphur from the melting kettle into the shell, a central duct extending through the melting kettle and shell into proximity with the lower end thereof, a discharge pipe leading from the upper end of the central duct and means for causing the flow of molten sulphur as it passes downward to follow a serpentine course to the lower end of the central duct through which the resulting hot gases pass.

1,421,233. STOVE. PHILLIP H. HOHMANN and EZRA E. INNIS, Laurel, Mont. Filed Feb. 9, 1920. Serial No. 357,335. 1 Claim. (Cl. 126—20.)

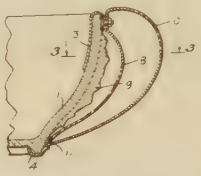


A stove for automobiles, comprising a receptacle provided with spaced walls, a door controlling access to the receptacle, a pipe connected to the exhaust pipe of the automobile and extending into said receptacle between said spaced walls, baffle plates disposed between the spaced walls of said receptacle, vessels removably positioned in the receptacle, a cover for each of said vessels, a horizontal vent pipe extending into said receptacle above said covers, vertical pipes extending from said covers and communicating with said vent pipe, a cover hingedly secured to said receptacle, coil springs secured to the bottom of said cover and adapted to engage said vent pipe, and a pipe extending into said receptacle between said spaced walls and communicating with the atmosphere.

1,421,234. TOY. MYRTLE BLANCHE HOUGHTON, Portland, Oreg. Filed Sept. 20, 1921. Serial No. 501,910. 1 Claim. (Cl. 244—21.)

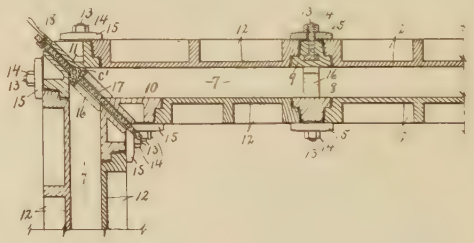
A toy comprising a tubular and longitudinally slotted body open and threaded at one end and having at its opposite end a handle the extremity of which is threaded, a handle movable in the tubular body and having finger pieces disposed in the slots thereof, a rod in the body and on said movable handle, a coiled spring in the body and about the rod and interposed between the body and the handle, a cap removably placed on the tubular body, and a parachute member telescopically arranged in the tubular body and including a rod, a folding and spreading portion connected to the upper portion of the rod, strings interposed between and connecting the outer edge of said portion and the lower portion of the rod, a cage or basket connected to and extending below the rod and having upper and lower heads and also having spaced connecting portions between said heads, and a gravitational figure connected through the medium of a string with the lower head of the cage or basket, said figure and its string being adapted to be disposed in the cage or basket when the parachute member is telescopically arranged in the tubular body.

1,421,235. HANDLE FOR DISHES. RUDOLPH HUBACHEK, New Brunswick, N. J. Filed Mar. 10, 1921. Serial No. 451,246. 3 Claims. (Cl. 65—13.)



1. A handle attachment for dishware or crockery from which handles have been broken, which comprises a resilient sheet-metal plate adapted to be disposed along the side surface of the article, said plate having a portion arched longitudinally and transversely intermediate its ends to form a cover over the broken part to conceal same and form a protection for the hand of the user, a lip portion at the upper end of the plate to engage the upper edge of the article, a spring latch portion at the lower end of the plate, and a bent hand grip member attached to the upper portion of the plate and extending downwardly spaced from the arched portion of the plate.

1,421,236. CONCRETE-BUILDING FORM. PAUL J. HUEBER, Syracuse, N. Y. Filed July 6, 1920. Serial No. 394,195. 9 Claims. (Cl. 25—131.)



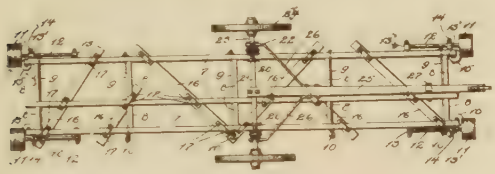
1. In a concrete building form, the combination of spaced upright posts and a panel of substantially the same width as the distance between the posts, the inner and outer faces of the posts being disposed in substantially the same vertical planes as the corresponding faces of the adjacent portions of the panels when the latter are placed in operative position, the adjacent edges of the posts and panels being flared outwardly to prevent the inward movement of the panels beyond said planes and to permit their free outward displacement from the posts.

3. In a form for concrete walls, the combination with a footing course of inner and outer longitudinally extending footing strips arranged in transversely spaced relation lengthwise of and upon the footing course and having

their upper faces beveled, means for holding the strips in spaced relation, upright studs having their lower edges beveled and resting upon the beveled upper edges of said strips in spaced relation lengthwise thereof, means for holding the additional forms in transversely spaced relation, panels inserted in the spaces between the studs, and turn-buttons pivotally mounted upon the outer faces of the studs and movable into and out of engagement with the outer faces of the adjacent edges of the panels.

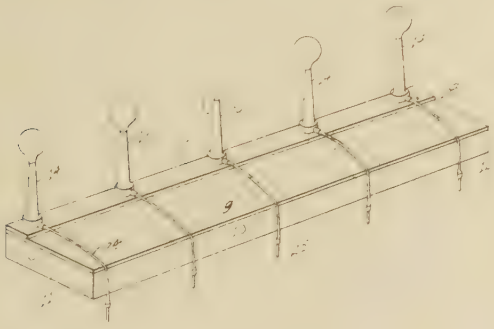
7. In a concrete building form, the combination of a horizontally extending footing course, a footing strip extending lengthwise of and upon the footing course, spaced upright posts having their lower ends resting upon the footing strip, means for clamping the posts to the footing strip, means for holding the upper ends of the posts in spaced relation, clamping members permanently secured to the posts, panels in the spaces between the posts, and locking members engaging the clamping members and extending across the meeting edges of the posts and panels.

1,421,237. SUBGRADING MACHINE. CHRISTIAN J. HUG, Highland, Ill. Filed Oct. 16, 1920. Serial No. 417,367. 3 Claims. (Cl. 37—7.)



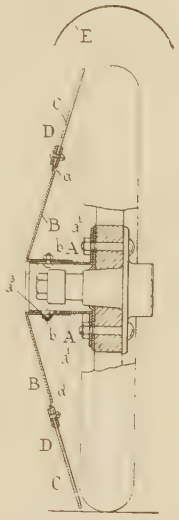
1. In a sub-grading machine the combination of a frame; grading blades carried by said frame; rollers supporting the frame when in operative position; a crank-axle journaled transversely on said frame; wheels mounted on said crank-axle; and a tongue secured to said crank-axle and arranged to transfer the weight of the frame to said wheels for the purpose of transporting the machine when not in operative position.

1,421,238. AMUSEMENT DEVICE. ANTON HULSMANN, San Francisco, Calif. Filed June 17, 1921. Serial No. 478,382. 3 Claims. (Cl. 46—56.)



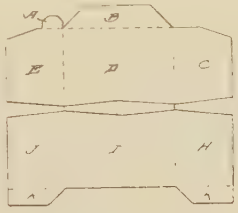
1. A device of the character described, comprising a supporting frame, having end sills and a top board, a plurality of standards mounted on said frame, each of said standards being provided with a central bore and having an air balloon mounted thereon, a sectional pipe secured in said bore, a T element for holding the sections in a fixed position, means connected to said T element and adapted to supply air to said pipe, and mechanism positioned within said frame and operable from the outside thereof for controlling the supply of air to said pipe, said mechanism including a cross bar journaled in the sills of said frame, blocks secured to said cross bar, and a control arm connected to said cross bar and adapted to actuate the same.

1,421,239. SPLASH GUARD FOR THE WHEELS OF MOTOR VEHICLES. FREDERICK J. HUNDLEBY, Droylsden, and HAROLD M. LAWSON, Manchester, England. Filed Nov. 25, 1921. Serial No. 517,819. 1 Claim. (Cl. 280—156.)



A splash guard for the wheels of motor vehicles comprising in its construction a flanged sleeve A adapted to fit over the wheel hub and be attached to the wheel, a removably dished plate provided with a central inwardly extending hub sleeve adapted to fit over and be attached to the flanged sleeve A, means for securing the two sleeves together and a ring of flexible material attached to the periphery of the plate to catch the splash and throw it into the wing substantially as described.

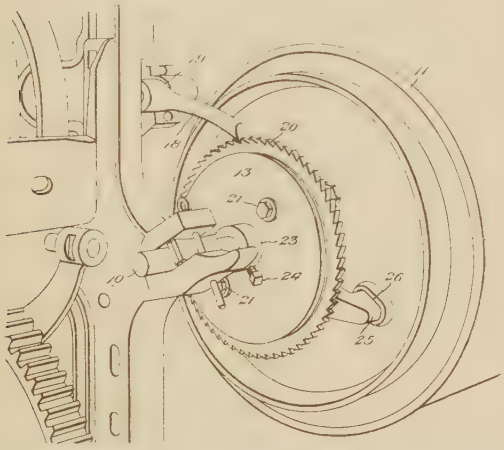
1,421,240. TWOFOLD ENVELOPE OR DOUBLE ENVELOPE. JUICHI IKEDA and MASASHI MIURA, Kobe, Japan. Filed Feb. 12, 1918, Serial No. 216,764. Renewed Mar. 8, 1922. Serial No. 542,163. 1 Claim. (Cl. 229—72.)



In a blank for a double envelope comprising a front piece, a piece connected therewith forming an intermediate, partition when folded, side flaps carried by the front and partition pieces, the side flaps of the partition piece being foldable thereon, spaced supplemental closure flaps, carried by the lower free edges of the side flaps of the said partition, triangular, overlapping reenforcing side portions between the flaps of the front and intermediate pieces, a main closure flap carried by the free edge of the front piece, the partition piece being foldable to dispose the side flaps thereof against the inner face of the front piece, the flaps of the partition piece dividing the interior of the envelope into two chambers, said main and supplemental closure flaps being disposed in overlapping relation and the open mouths of the two chambers being disposed in contiguous relation, the side flaps of the front piece being foldable upon the partition piece and the main and supplemental closure flaps being adapted for insertion between the partition piece and the side flaps of the front piece, and a sealing tab carried by the upper free edge of

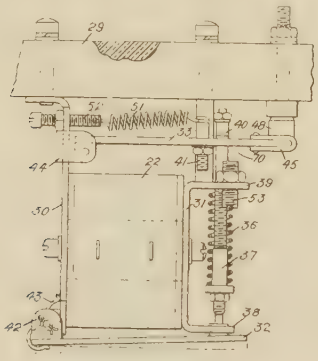
one of the side flaps of the front piece adapted to be folded across the closure flaps and upon the front face piece to prevent opening of the main and supplementary closure flaps.

1,421,241. LET-OFF MOTION FOR LOOMS. SAMUEL INGHAM, Pawtucket, R. I. Filed May 15, 1920. Serial No. 381,537. 4 Claims. (Cl. 188—83.)



1. A let off motion for warp beams and the like consisting of opposed complemental friction disks secured together and to the warp beam, an interposed ratchet disk, means for relatively adjusting said friction disks to vary the frictional contact between the same and the ratchet disk, and means for securing the ratchet disk against rotary movement.

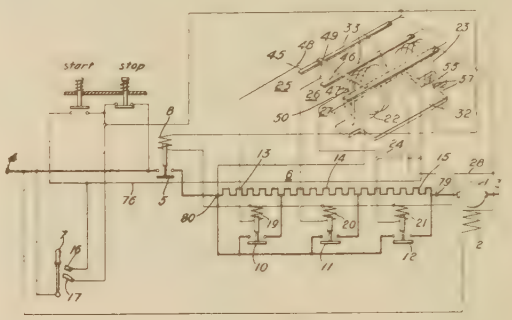
1,421,242. CONTROL SYSTEM. HENRY D. JAMES, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 8, 1919. Serial No. 270,147. 6 Claims. (Cl. 172—288.)



3. The combination with an electric motor having a resistor associated therewith, a relay comprising a plurality of pairs of contact members for controlling said resistor and an energizing coil for said relay, said pairs of contact members being operable at different degrees of force exerted by said coil, of means for shunting a portion of said coil upon the operation of the first pair of contact members to close.

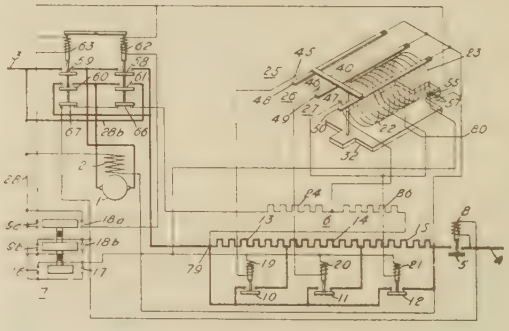
6. The combination with an electric motor having an armature, a resistor in series therewith, a plurality of switches for short-circuiting said resistor, a relay for each switch and means for normally maintaining said relays open, of a coil in series with said resistor for rendering said maintaining means effective or ineffective to maintain said relays open according as the current traversing said coil is above or below predetermined values, and means for short-circuiting a portion of said coil upon the closing of all the relays except the last to close and for maintaining a portion of said coil in the motor circuit after the closing of the last contractor to close.

1,421,243. CONTROL SYSTEM. HENRY D. JAMES, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 4, 1919. Serial No. 287,561. 8 Claims. (Cl. 172—288.)



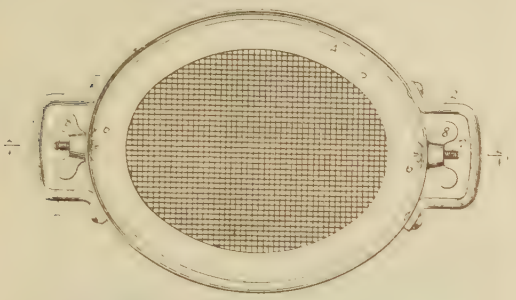
5. The combination with an electric motor and a line switch and an accelerating switch therefor, of means for controlling the operation of said switches, said means comprising a relay and a switch for successively rendering said relay responsive to line voltage to effect the operation of said line switch and to the current traversing the motor circuit prior to the closing of said accelerating switch.

1,421,244. CONTROL SYSTEM. HENRY D. JAMES, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 4, 1918. Serial No. 260,949. Renewed Mar. 23, 1922. Serial No. 546,183. 7 Claims. (Cl. 172—179.)



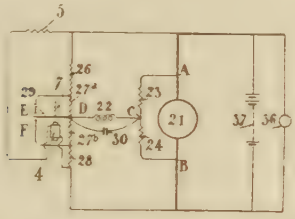
2. The combination with an electric motor having a resistor, a pair of reversing switches for said motor, and a coil for controlling said resistor, of switches mechanically connected to said reversing switches for closing the circuit of said coil before the starting of said motor.

1,421,245. SIEVE. WILLIAM JENNINGS JOHNSON, Creston, Iowa. Filed Dec. 24, 1921. Serial No. 524,584. 3 Claims. (Cl. 83—30.)



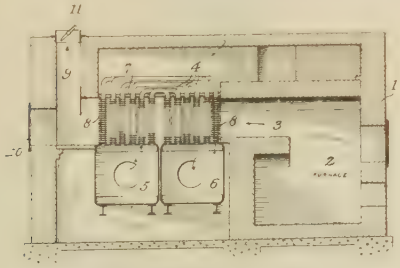
1. A sieve including a rim, an annular internal flange around the lower edge of the rim, a screen carrying ring supported on the flange and including at its ends extensions lying along the inner faces of the rim and removably secured thereto.

1,421,246. APPARATUS FOR REGULATING THE VOLTAGE OF DYNAMO-ELECTRIC MACHINES. ALEXIS JOSEPH JULLIN, St.-Cloud, France. Filed May 20, 1920. Serial No. 382,921. 6 Claims. (Cl. 171—229.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



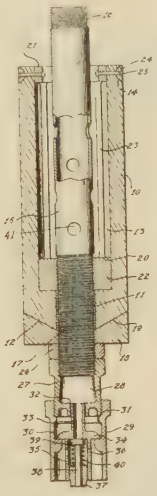
1. An apparatus for regulating the voltage of dynamos running at varying speeds and under varying loads, comprising a solenoid controlled by the voltage of the dynamo, a vibrating tongue controlled by said solenoid, a spring controlling said vibrating tongue, two contact members adapted to cooperate with said vibrating tongue, an exciting winding for the dynamo, and two open electric circuits influenced by the voltage of the dynamo, embodying predetermined resistances, and respectively connecting said contact members to the dynamo terminals, each of said open circuits being adapted to be closed by said vibratory tongue and said exciting winding for the dynamo.

1,421,247. AIR HEATER FOR FURNACES. WALTER FRANCIS KEENAN, Jr., New York, N. Y., assignor to Power Specialty Company, New York, N. Y., a Corporation of New York. Filed July 24, 1920. Serial No. 398,680. 4 Claims. (Cl. 257—239.)



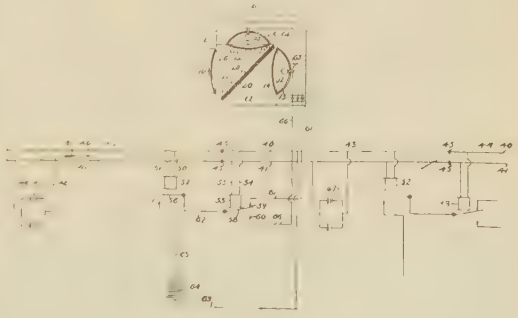
1. An air heater comprising a passage for the hot gases, a bank of U tubes for the air to be heated with their parallel legs crossing said passage and so disposed that each tube of the bank will be exposed to the same aggregate effect of the hot gases as any of the other tubes.

1,421,248. COMBINED SWAB AND VALVE FOR WELLS. BENJAMIN F. KELLEY, Tulsa, Okla., assignor of one-fourth to William K. Hughes, St. Louis, Mo., and one-fourth to D. D. Myers, Tulsa, Okla. Filed Dec. 27, 1920. Serial No. 433,466. 4 Claims. (Cl. 166—19.)



1. A device of the character described comprising a pipe formed with a plurality of holes, a cage member secured upon said pipe, a cylindrical swab of elastic material disposed outwardly of said cage member and held against movement longitudinally of the pipe, a casing connected with the bottom of the pipe below said swab, an upwardly opening check valve in said casing, said valve being formed with a central bore, and a spring-pressed plunger engaging against the bottom of said valve for closing said bore.

1,421,249. METHOD OF AND APPARATUS FOR PROTECTING SIGNAL APPARATUS FROM FALSE COLORED SIGNALS. CLARENCE H. KELSEA, Belmont, Mass., assignor to Peter Gray & Sons Inc., Cambridge, Mass., a Corporation of Massachusetts. Filed July 28, 1921. Serial No. 488,051. 16 Claims. (Cl. 240—22.)

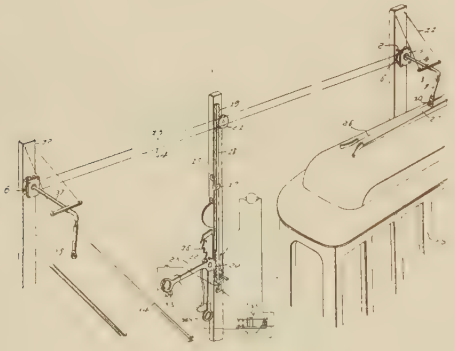


1. The method of protecting signaling apparatus from false signals produced by light rays from an extraneous source, which consists in partially masking the false signal light produced by said extraneous rays under one condition of use, and completely masking the false signal light produced by said extraneous rays under another condition of use.

1,421,250. CONDUIT PLOW. WILLARD H. KEMPTON, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 26, 1920. Serial No. 426,387. 9 Claims. (Cl. 191—48.)

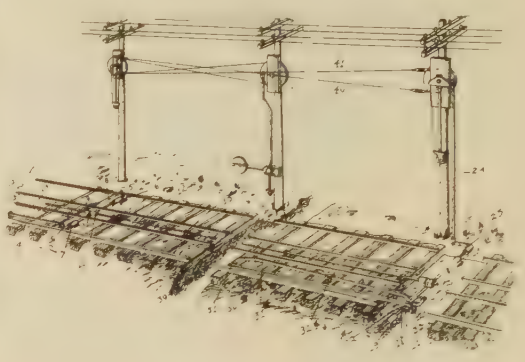
1. A conduit plow comprising, in combination, a body portion of insulating material molded about a pair of conductors, current-collecting members secured to the body portion, wear-resisting plates secured to the surface of the plow, and a pair of insulating members secured to the surface of the plow between the collectors and the wearing plates.

1,421,251. SIGNALING APPARATUS. JAMES W. KENNEDY, Canton, Ohio, assignor of one-fourth to George S. Haggart and one-fourth to Harry C. Conrad, both of Canton, Ohio. Filed July 13, 1921. Serial No. 484,481. 4 Claims. (Cl. 246—293.)



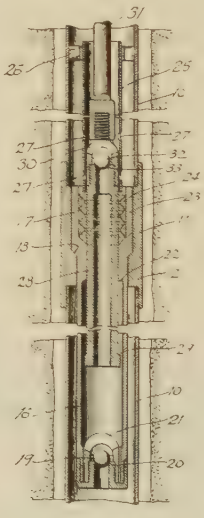
1. A signaling apparatus for moving vehicles comprising a permanently located semaphore, provided with an indicator arm, means for raising and lowering said arm, and mechanical means on said moving vehicle for actuating the last mentioned means, an electric lighting device adapted to be operated by the movement of the actuating bar of the indicating arm, said lighting device comprising a plurality of light bulbs, a pivotally mounted circuit breaker having two contact points normally out of engagement, means for supplying current to one of said bulbs, the two contact points being brought into engagement upon the breaking of the current in one of said bulbs.

1,421,252. RAILWAY SIGNALING APPARATUS. JAMES W. KENNEDY, Canton, Ohio, assignor of one-fourth to George S. Haggart and one-fourth to Harry C. Conrad, both of Canton, Ohio. Filed Sept. 8, 1921. Serial No. 499,296. 7 Claims. (Cl. 246—102.)



3. Apparatus for operating a signaling device, comprising a longitudinally extending slidably mounted rod, a transverse rotatably mounted rod, operably connected with the signaling device and with the longitudinally extending rod, an operating rod pivotally mounted at one end and having its other end in engagement with a part projecting from the transverse rotatable rod, a second operating rod pivotally mounted at a point between its extremities, means secured to a moving vehicle for actuating the operating rod in the forward movement of the vehicle and means for actuating the second operating rod, in the rearward movement of the vehicle, the point of pivoting of the second operating rod, being such that the first named means will clear its operating rod in a rearward movement and the second means will rotate the transverse rod and re-set the signal for danger.

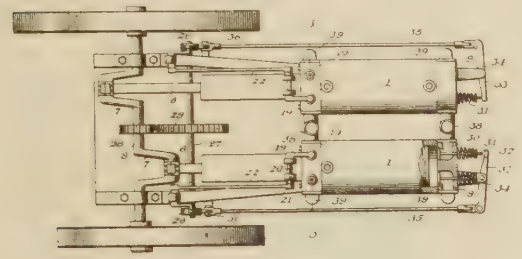
1,421,253. REMOVABLE DEEP-WELL PUMP. OTTO B. KIBELE, Los Angeles, Calif. Filed June 20, 1921. Serial No. 479,028. 3 Claims. (Cl. 103—80.)



1. In a deep well pump, a tubular member having an internal shoulder, a barrel arranged in said tubular member and resting upon said shoulder, an inlet check valve at the lower end of said barrel, a plunger arranged for reciprocatory movement through the upper portion of

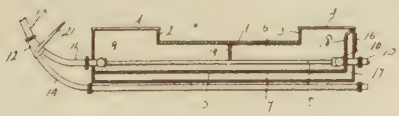
said barrel, an outlet check valve arranged at the upper end of said plunger, a metallic packing arranged between said plunger and said barrel and a perforated tube bearing on top of said packing and serving to retain the same in position between said plunger and barrel.

1,421,254. ENGINE. HOSEA B. KING, near Desmet, Idaho. Filed Nov. 11, 1919. Serial No. 337,184. 1 Claim. (Cl. 123—63.)



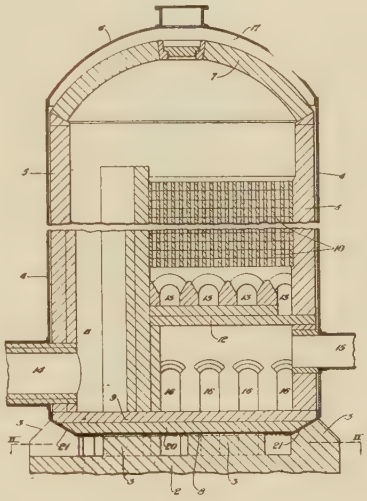
In an internal combustion engine, a plurality of cylinders provided with heads at the opposite ends thereof and having inlet and exhaust ports formed therein, a crank shaft provided with oppositely directed cranks, reciprocatory pistons located in said cylinders, a plurality of parallel guides, cross heads engaging said guides, rods connected to said cross heads and to said pistons, connecting rods pivotally secured to said shaft, a cam shaft located adjacent to said crank shaft, a plurality of cams projecting therefrom, a relatively small gear secured to said crank shaft, a relatively large gear secured to said cam shaft and meshing with the small gear, spring influenced valves engaging said inlet and exhaust ports, stems extending from said valves, rocker arms engaging two of the stems at one end of said cylinders, supports carried by said guides, bell crank levers pivotally secured to said supports and engaging two of the stems adjacent to the opposite ends of said cylinders, pivotally mounted bell crank levers located adjacent to said cam shaft, rods connecting the first and last mentioned bell crank levers, anti-friction rollers carried by the last mentioned bell crank levers and engaging said cams, rods extending from said rocker arms, and anti-friction rollers carried by the outer ends of said rods and engaging said cams.

1,421,255. AUTOMOBILE HEATER. WILLIAM A. KINNEY, Philadelphia, Pa. Filed Apr. 1, 1920. Serial No. 370,430. 1 Claim. (Cl. 237—136.)



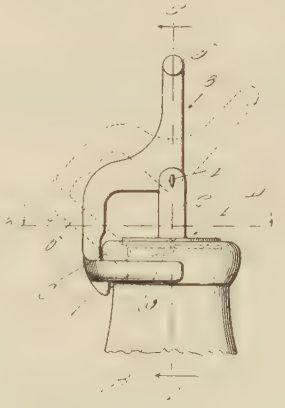
An automobile heater comprising a casing having a flue at each end and provided with damper controlled air inlets at one end, a perforated plate dividing the interior of said casing into upper and lower compartments, a plurality of tubes within the upper compartment adapted to be connected with the exhaust of an engine, a partition to the rear of said tubes and forming with the walls of the casing a passageway leading from the air inlets to the lower compartment and means in the upper compartment to direct the flow of air to the flues.

1,421,256. HOT-BLAST STOVE. FRED E. KLING, Youngstown, Ohio. Filed Dec. 5, 1921. Serial No. 520,051. 5 Claims. (Cl. 263—19.)



1. A hot blast stove comprising a cylindrical side wall portion, a closed top portion, and a bottom wall, said bottom wall having an outer rim portion projecting upwardly on an angle to the remainder of said bottom.

1,421,257. MILK-BOTTLE CARRIER. EDWARD MICHAEL KNUDSEN, Superior, Wis. Filed Aug. 25, 1921. Serial No. 495,273. 4 Claims. (Cl. 215—100.)

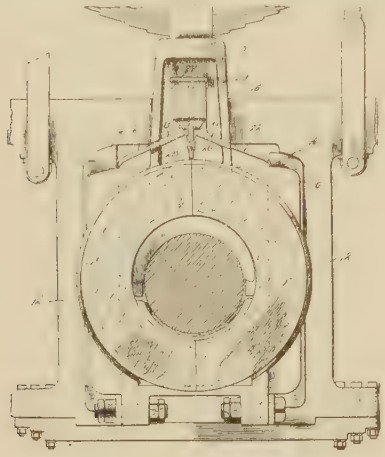


1. A milk bottle carrier comprising a stopper-engaging member, a handle pivotally connected thereto, and means on the lower end of the handle for engaging the bead on the neck of the bottle.

1,421,258. DRIVING-BOX LUBRICATOR. ARTHUR T. KUEHNER, Elkridge, Md. Filed July 12, 1920. Serial No. 395,692. 11 Claims. (Cl. 64—25.)

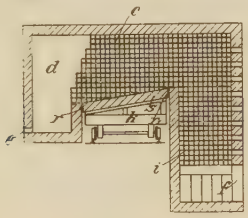
2. The combination with a journal box having a shoe and wedge associated therewith, of a reservoir mounted

adjacent to the box, and means independent of the box leading from the reservoir to said shoe and wedge re-



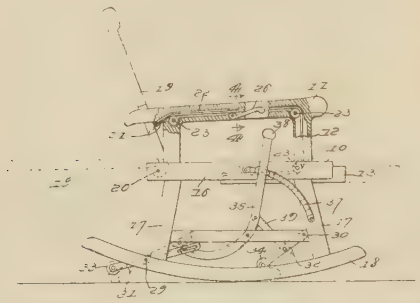
spectively and to the end play surface of the box for distributing lubricant thereto.

1,421,259. REGENERATOR FOR SMELTING FURNACES. PAUL KÜHN, Dortmund, Germany. Filed June 12, 1920. Serial No. 388,681. 3 Claims. (Cl. 263—15.)



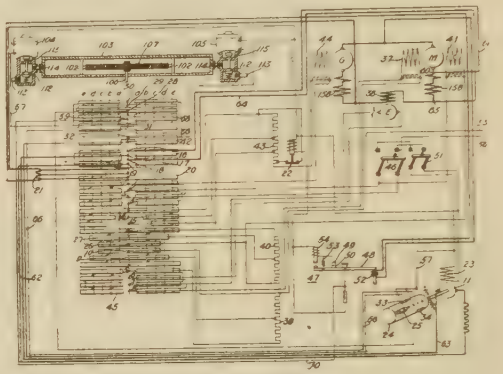
1. In a furnace in combination, a regenerating chamber and checker work partly filling it, the said chamber being subdivided in two sections, one extending substantially in horizontal direction and another one extending downwards at an angle to the former one.

1,421,260. COUCH ARMCHAIR. PETER E. KURNICK, San Francisco, Calif. Filed Dec. 17, 1920. Serial No. 431,371. 1 Claim. (Cl. 155—73.)



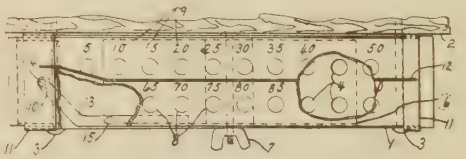
A convertible chair having a seat provided with depending legs and rockers carried at the lower ends of the legs, rear roller carrying supports pivoted to the rockers adjacent the rear ends, forward roller carrying supports pivoted adjacent the front legs, pivotally mounted operating levers disposed on opposite sides of the chair, links connecting said levers with the forward roller supports, pin and slot connections between the extremities of the levers and the rear supports, and arcuate racks traversed by the levers for maintaining them in various positions of adjustment in the manner and for the purpose specified.

1,421,261. CONTROL SYSTEM. EDWIN S. LAMMERS, Jr., Elyria, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 7, 1919. Serial No. 295,508. 6 Claims. (Cl. 172—239.)



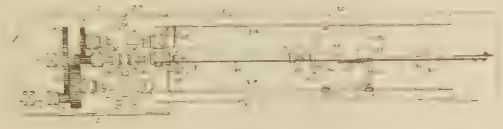
1. The combination with an electric generator having a resistor in the field-magnet circuit thereof, of means for gradually shunting said resistor, means for intermittently shunting said resistor in accordance with the relation of the actual generator voltage to the voltage for which the first means has been adjusted, and means comprising a torque motor for controlling said first means in accordance with the value and the direction of the current traversing said generator.

1,421,262. CHECK HOLDER. JOSEPH B. LARKIN, Palo Alto, Calif. Filed Apr. 27, 1921. Serial No. 465,056. 7 Claims. (Cl. 211—31.)



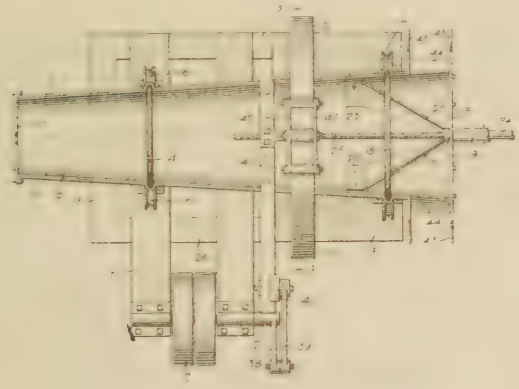
1. A check holder comprising a casing having a top formed with a row of apertures, a guide extending transversely across the top of the casing beyond each end of the row of apertures, means for holding a strip of checks from which the strip is led across the top of the casing over the apertures and beneath the guides, a spacing wire connecting the two guides and overlying the strip on the top off to the side of the row of apertures, the strip bearing characters for being associated with the row of apertures and being exposed intermediate the guides whereby an instrument may be pierced through the strip and into a selected aperture, and means for predeterminedly disposing the strip over the row of apertures.

1,421,263. TUBE-CUTTING MACHINE. EDWARD S. LEA, Trenton, N. J., assignor to Ulysses Grant King, Trenton, N. J. Filed Apr. 30, 1921. Serial No. 465,820. 17 Claims. (Cl. 164—61.)



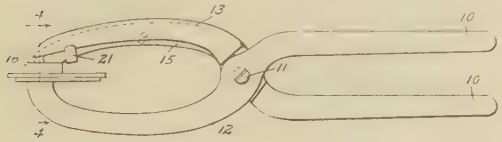
1. In a tube cutting machine, the combination with internal and external shearing elements, of mechanism for freeing the internal element of the severed portion of a tube operated upon to permit the feeding thereto of the uncut portion of the tube.

1,421,264. ORE CONCENTRATOR. ROBERT LE ROY, Basin, Mont. Filed Apr. 15, 1921. Serial No. 461,501. 5 Claims. (Cl. 83—88.)



1. A concentrator comprising a base frame, a concentrator trough disposed thereon, bearing rods on the trough, rollers on the base adapted to receive the bearing rods, a source of power, connections between the trough and the source of power whereby the trough is rocked, and resilient cushioning means connected to the trough and the frame to cushion the movement of the trough in either direction and restore the trough to normal at the end of each rocking stroke.

1,421,265. STAPLING DEVICE FOR SHOES, ETC. JOSEPH M. LEVINSON, Los Angeles, Calif. Filed June 27, 1921. Serial No. 480,644. 1 Claim. (Cl. 1—50.)

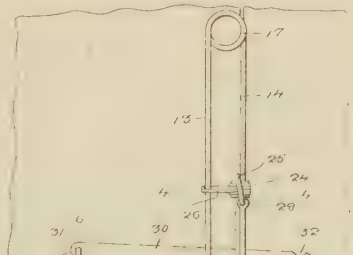


A staple setting tool comprising a pair of pivoted jaws, an anvil on the free end of one of the jaws, an arm pivoted at the side of the other jaw and having an offset free end provided with an aperture, a bracket formed on the arm, an expansible spring arranged between the bracket and second mentioned jaw, and a finger of a width reduced with respect to the width of the second mentioned jaw, said finger being formed on the free end of the latter and slidable in the aperture, said aperture being of such a width as to slidably receive and sustain a staple in proper abutting relation with respect to the finger during the entire movement of the staple and finger toward the anvil.

1,421,266. ROD AND PIPE GRAB FOR WELLS. FRAY A. LOMAN, ALLIE L. LOMAN, and HENRY C. DEAN, Eldorado, Kans. Filed Apr. 1, 1920. Serial No. 370,558. 4 Claims. (Cl. 294—102.)

1. In a rod or pipe grab, a supporting shank, a bowl carried thereby having an inner downwardly converging guide surface, a plurality of rod or pipe clamping members slidably engaging said converging surface and movable independently of each other to and from the clamping position, and a mandrel carried by and in fixed relation to said shank in said bowl and extending between said clamping members and adapted to co-operate with the latter for clamping a rod or pipe.

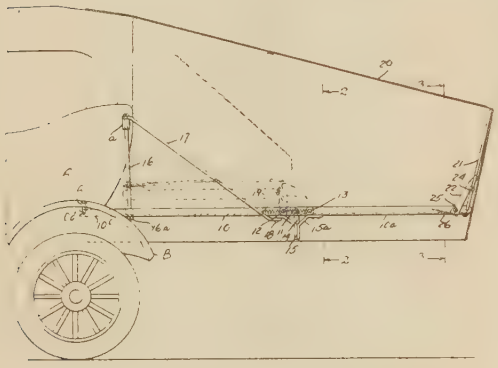
1,421,267. ALARM. JOHN B. LOCKER, St. Louis, Mo. Filed July 12, 1921. Serial No. 484,128. 8 Claims. (Cl. 116—87.)



7. A signalling device comprising a frame, means whereby said frame may be secured to a movable member, an anvil secured to the frame, means for holding an explosive element upon the anvil, a spring actuated hammer movable upon the frame, means carried by the frame for holding the hammer against movement, means included in the hammer holding means for engagement between the movable member and a stationary member to hold the hammer against operation, key controlled means whereby the anvil may be moved to move the ex-

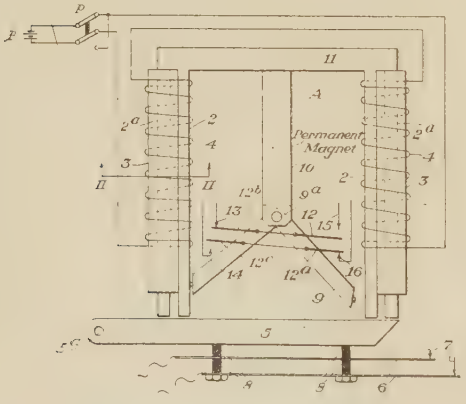
plosive element out of the path of the hammer and a trigger engaging arm pivotally secured to the anvil for preventing operation of the hammer.

1,421,268. BED FOR USE ON AUTOMOBILES. EDWARD VINCENT LOUSTALOT, Franklin, La. Filed Oct. 10, 1921. Serial No. 506,775. 7 Claims. (Cl. 5—72.)



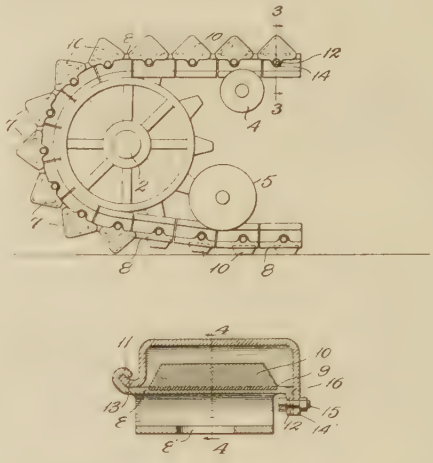
3. A bed of the class described including a mattress frame trussedly suspended from the body of a vehicle, said frame comprising a head and a foot section pivotally connected for one to fold on the other, a spacing link between the sections, and bracing elements affixed to each section adjacent said link adapted to engage each other and truss these sections at their pivot points below said link when the sections are unfolded.

1,421,269. ELECTROMAGNET. SAMUEL M. LUCAS, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Dec. 16, 1920. Serial No. 431,078. 11 Claims. (Cl. 175—339.)



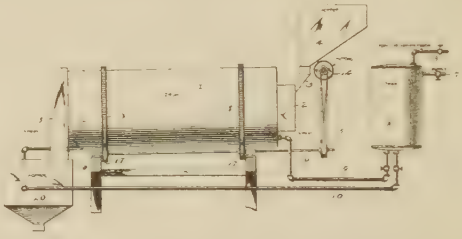
1. An electromagnet comprising a neutral armature and a polarized armature, a winding for creating magnetic flux to control both of said armatures, and means for delaying the reversal of part of the flux in the neutral armature when the polarity of the current supplied to said winding is reversed.

1,421,270. TRACTOR. JOSEPH I. MCMULLEN, Washington, D. C. Filed July 9, 1920. Serial No. 394,994. 8 Claims. (Cl. 305—10.)



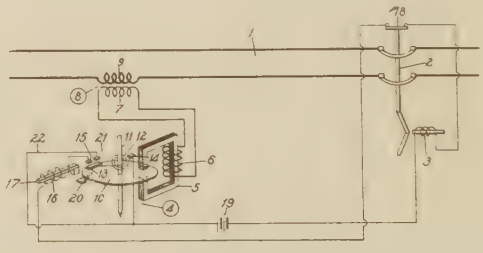
1. A link for endless tracks comprising a metallic plate, a rubber pad permanently fastened thereon and a detachable grouser fitting over the pad, said rubber pad forming a tread surface when the grouser is removed.

1,421,271. COATED GRANULES. CLAUDE P. MCNEIL, New York, N. Y. Filed Apr. 21, 1919. Serial No. 291,585. 4 Claims. (Cl. 252.)



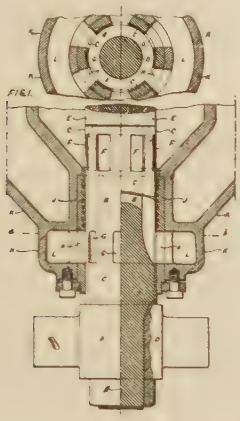
1. Granules having their surfaces substantially uniformly coated with a permanganate.

1,421,272. RELAY. PAUL MACGAHAN, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 14, 1916. Serial No. 136,887. 9 Claims. (Cl. 175—294.)



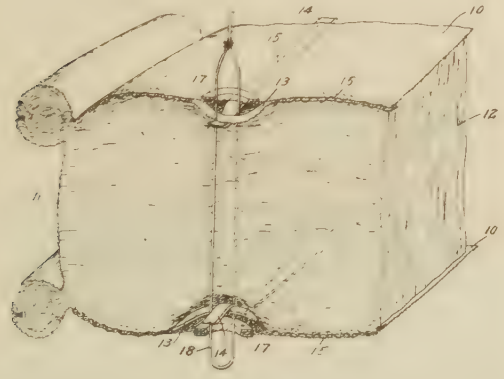
5. The combination with an induction-type relay embodying a movable armature, a plurality of main contact members, engagement of which is controlled thereby and a control spring for controlling the movement of the armature and for electrically connecting one contact member to a control circuit, of means for close-circuiting the control spring immediately upon the engagement of the main contact members.

1,421,273. SCAVENGING DEVICE FOR COMBUSTION ENGINES. JOHN CAMPBELL MACCALL MACLAGAN, Glasgow, Scotland. Filed Aug. 16, 1921. Serial No. 492,752. 2 Claims. (Cl. 123—65.)



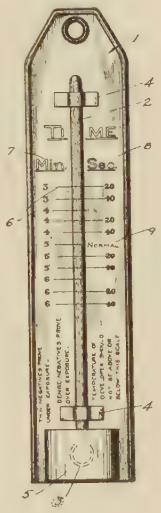
2. In an internal combustion engine, an explosion cylinder having at one end an annularly chambered cover with a series of inwardly opening ports, a piston rod passing through said cover and of reduced diameter in the portion working in said cover, a sleeve encasing the reduced area of the piston rod, said sleeve having toward its cylinder end a series of ports out of axial alignment with the ports in the cover chamber but opening to the reduced portion of the cylinder rod, while at its opposite end said sleeve has a series of ports located in axial alignment with the ports to the cover chamber and registering therewith in predetermined longitudinal position of the piston rod to establish communication between said chamber in the cylinder cover and the explosion cylinder through the passageway afforded between the reduced portion of the piston rod and its enclosing sleeve.

1,421,274. MATTRESS. HARRY J. MALERSTEIN, Los Angeles, Calif. Filed Oct. 31, 1921. Serial No. 511,582. 3 Claims. (Cl. 5—13.)



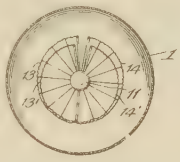
1. In a mattress, a pair of covering members, crossed strips of flexible material secured to the inner face of each covering member, there being openings formed in the covering members at points corresponding to the crossing points of said strips, a body of fibrous material between the covering members, and tie members connecting the crossed portions of the covering members on one side of the mattress body to the crossed portions of the strips on the other covering members.

1,421,275. TIME GAUGE FOR PHOTOGRAPHIC DEVELOPING, ETC. HOWARD A. MASAC, Los Angeles, Calif. Filed Apr. 7, 1920. Serial No. 371,979. 1 Claim. (Cl. 73—52.)



A gauge comprising a temperature responsive medium having a scale associated therewith and graduated from six minutes forty seconds to three minutes twenty seconds throughout what corresponds to a temperature increase from sixty degrees to seventy degrees F. inclusive.

1,421,276. ELECTRIC LAMP. ENÉAS GEVINARÆS MASCARENHAS, Juiz de Fora, Brazil. Filed Sept. 5, 1919. Serial No. 321,833. 2 Claims. (Cl. 176—27.)

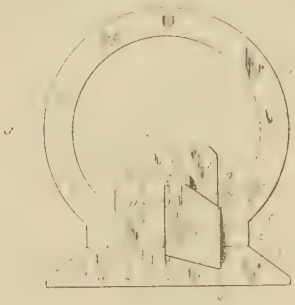


1. In an electric incandescent lamp a globe, a base, a standard carried by the base and projecting into the globe, a plurality of arc-shaped filaments arranged in the same plane, contiguous to each other in a plane at right angles to said standard, said filaments being also arranged eccentrically to each other and a plurality of lead-in wires connected with said filaments, one of said lead-in wires being connected to all of the filaments and acting as a common return while the other lead-in wires are connected to individual filaments whereby any filament may be used independently.

1,421,277. ADVERTISING AND DISPLAY DEVICE. THOMAS MATHEWS, deceased, by Annie Mathews, Leicester, and Harry Buckingham, London, England, administrators. Filed Apr. 12, 1921. Serial No. 460,637. 3 Claims. (Cl. 40—150.)

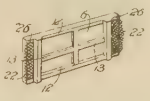
1. A display device of the kind herein referred to, comprising, a base, a back member and a front member hingedly attached to the base, and a strut vertically hinged to the rear of the front member and arranged to

work in a slot or opening formed in the base and back member, said strut when the device is erected project-



ing to the rear thereof to form a support therefor and engaging with the back member to maintain it erect.

1,421,278. CONCRETE AND LIKE BUILDING BLOCK OR SLAB. ALFRED C. MATTHEWS, Melbourne, Victoria, Australia. Filed Dec. 21, 1920. Serial No. 432,272. 3 Claims. (Cl. 72—30.)



1. A wall structure made up of plate-like slabs having lateral offsets, the offsets of certain of the slabs varying in their relations to the ends of the slabs with respect to the offsets of other slabs, whereby with the slabs in wall formation the offsets define plastic material receiving channels extending vertically of the wall while through mortar joints are avoided, and metallic slab tying members leading from the respective slabs to and through said channels.

1,421,279. PROCESS OF CINEMATOGRAPHY IN NATURAL COLORS. LOUIS MAUCLAIRE, Paris, France, assignor to himself, ANDRÉ GARBARINI, and GEORGES GAUTIER, Paris, France. Filed Feb. 9, 1918. Serial No. 216,427. 4 Claims. (Cl. 88—16.4.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

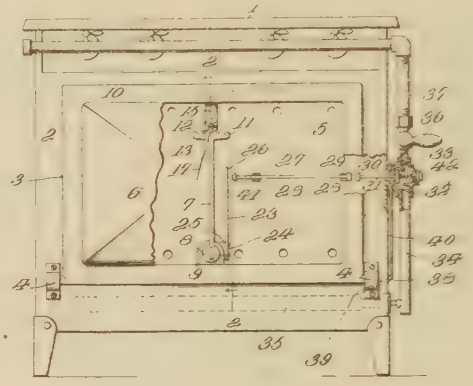
1. A process of taking or projecting motion pictures in color, comprising taking or projecting an image or scene in sets of four color records, two of the records being of primary colors, and two being records of two colors whose combination constitute the third primary color complemental to the colors of the two primary color records aforesaid, and interposing a moving colored screen having the four colors selected, each colored part of the screen having a varying color tone.

1,421,280. CONSTRUCTION OF AIRCRAFT WINGS AND AEROFOILS. JAMES JACOB MAYROW, London, England. Filed Dec. 5, 1917. Serial No. 205,643. 7 Claims. (Cl. 244—31.)

1. A structural member for aeronautical machines comprising a corrugated element with the corrugations extending from two opposite edges thereof partially across such element, leaving an uncorrugated portion between an end of each corrugation and the adjacent edge of the element, and a separate substantially U-shaped element

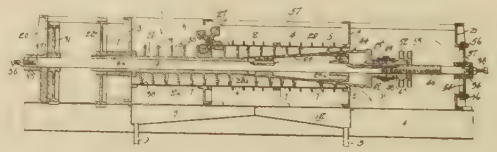
at each edge of the corrugated element, said U-shaped elements being disposed with their concave sides towards said corrugated element and being directly and rigidly secured thereto.

1,421,281. OVEN-HEAT REGULATOR. BENJAMIN EDWIN MEACHAM, Lorain, Ohio, assignor to American Stove Company, St. Louis, Mo., a Corporation of New Jersey. Filed Jan. 3, 1921. Serial No. 434,714. 12 Claims. (Cl. 236—15.)



6. A mechanism of the character described, comprising an oven having an oven door, a burner, a fuel valve for the burner independent of the door, and a thermo member carried by the oven door and operatively connected with the fuel valve, whereby the valve is operated by the opening of the door.

1,421,282. CONTINUOUS PRESS. EDGAR T. MEAKIN, Berkeley, Calif. Original application filed Jan. 24, 1918, Serial No. 213,452. Divided and this application filed Oct. 29, 1918. Serial No. 260,142. 22 Claims. (Cl. 100—48.)

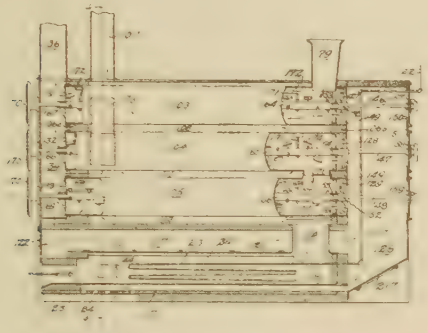


10. In a press, comprising a casing, a pressure screw in said casing, a feed screw for feeding material to said pressure screw, and means for revolving said feed and pressure screws at different speeds.

22. In a press, a casing, a shaft in said casing, a hollow conical shaft terminating in a cylindrical portion and fixed on said first shaft, threads disposed on the conical surface of said hollow shaft, a hollow conical sleeve enclosing the cylindrical end of said hollow shaft and fixed for rotation with said first shaft and longitudinally slidable thereon, threads disposed on said sleeve, and means

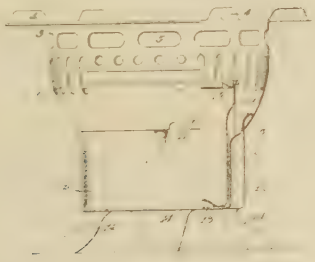
for moving said sleeve longitudinally on said first shaft out, and cylindrical portion of said hollow shaft to vary the area of the discharge opening from said casing.

1,421,283. APPARATUS FOR PRODUCING FISH MEAL. EDGAR T. MEAKIN, Berkeley, Calif. Filed Jan. 24, 1918. Serial No. 213,452. 23 Claims. (Cl. 71—1.)



1. In an apparatus for preparing fish meal, means for cooking the material, a stationary drum into which the cooked material discharges, paddles for tumbling said material in said drum, and a fan at one end of said drum for blowing heated clean air through said tumbling material to reduce it to a state of substantial dryness.

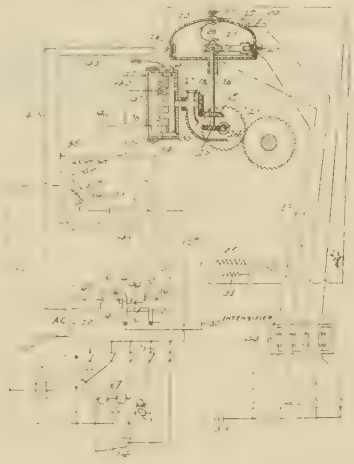
1,421,284. STAND FOR ALCOHOL BURNERS. GEORGE STANLEY MEIKLE, New York, N. Y., assignor to S. Sternau & Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Sept. 25, 1919. Serial No. 326,185. 4 Claims. (Cl. 126—43.)



1. A device of the character described, comprising a hollow crown member having converging walls, there being an axial opening in the member, there being a plurality of notches in the lower edge of the member each communicating with the opening, a hollow base member adapted to be positioned within the opening and movable therein, said base member having a flaring, flexible upper edge whereby movement of the base through the opening in one direction will be limited by the engagement of the flared edge with the interior of the converging walls of the crown member, a plurality of outwardly projecting lugs on the base portion, said lugs being so proportioned as to pass through the notches in the crown whereby the crown may be rotated and locked to the base between the said lugs and the converging walls.

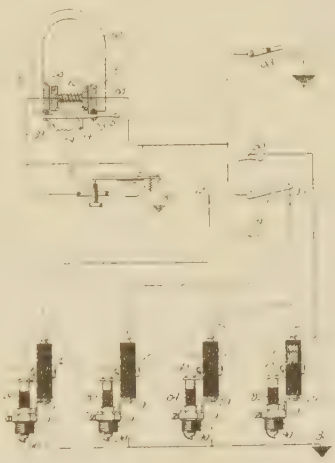
1,421,285. LIGHTING AND IGNITION SYSTEM FOR AUTOMOBILES. VENCESLAUS F. MIKOLASEK, Lankin, N. Dak. Filed Aug. 19, 1919. Serial No. 318,466. 6 Claims. (Cl. 171—318.)

1. An ignition system having an alternating current generator, an ignition circuit, a battery, a transformer having one set of terminals included in the ignition circuit, a battery circuit including the other set of terminals



of the transformer, and means for selectively including the generator in the ignition circuit.

1,421,286. MAGNETO IGNITION SYSTEM FOR INTERNAL-COMBUSTION ENGINES. JOHN LEWIS MILTON, Cleveland, Ohio, assignor to Motor Ignition & Devices Company, a Corporation of West Virginia. Filed Nov. 12, 1910, Serial No. 591,930. Renewed Nov. 8, 1919. Serial No. 326,735. 8 Claims. (Cl. 123—148.)

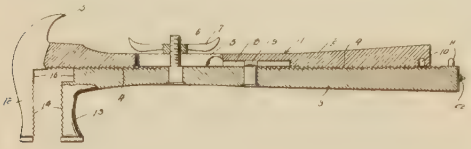


1. An ignition system for internal combustion engines comprising an alternating current generator, a condenser permanently bridged across the terminals of said generator, a transformer coil comprising a primary winding, a secondary winding in inductive relation to said primary winding, a jump spark circuit including said secondary winding, electrical connections between the terminals of the primary winding of the transformer coil and the terminals of the generator, normally-closed contacts in series with the primary winding, and engine-driven devices for opening said contacts when a spark is to be created within the engine cylinder with which the jump spark circuit is associated.

1,421,287. COMBINATION TOOL. RICHARD A. MOORE, Brookings, Oreg. Filed May 11, 1921. Serial No. 468,637. 2 Claims. (Cl. 81—132.)

1. A tool comprising a handle including a pair of parallel sections and one of said sections having a slot

and a groove communicating with the latter, a bolt carried by the other section and extending through the slot,



a member threaded to said bolt, a lug formed on the last-named section and received by the groove, and jaws carried by said section.

1,421,288. METHOD OF PREPARING CELLULOSE-ESTER PRODUCTS. HARRY S. MORK, Brookline, and CHARLES F. COFFIN, Jr., Watertown, Mass., assignors to The Lustron Company, South Boston, Mass., a Voluntary Association of Massachusetts. Filed Mar. 12, 1921. Serial No. 451,846. 2 Claims. (Cl. 106—40.)

1. Method of preparing cellulose ester products of standardized dyeing speed, comprising preparing several batches of the ester; and then combining the batches in presence of a solvent and in relative proportions to produce a homogeneous product having the desired predetermined dyeing speed.

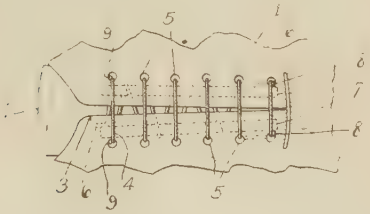
1,421,289. METHOD OF PREPARING CELLULOSE-ESTER PRODUCTS. HARRY S. MORK, Brookline, and CHARLES F. COFFIN, Jr., Watertown, Mass., assignors to The Lustron Company, South Boston, Mass., a Voluntary Association of Massachusetts. Original application No. 451,846, filed Mar. 12, 1921. Divided and this application filed Nov. 16, 1921. Serial No. 515,630. 3 Claims. (Cl. 106—40.)

1. Method of preparing cellulose ester products of standardized dyeing speed, comprising preparing several batches of the ester; subjecting batches of slower dyeing speed to an after treatment to effect substantial equalization of the dyeing speeds of the several batches; and then combining the batches in the presence of a solvent.

1,421,290. METHOD OF PREPARING CELLULOSE-ESTER PRODUCTS. HARRY S. MORK, Brookline, and CHARLES F. COFFIN, Jr., Watertown, Mass., assignors to The Lustron Company, South Boston, Mass., a Voluntary Association of Massachusetts. Original application filed Mar. 12, 1921, Serial No. 451,846. Divided and this application filed Nov. 16, 1921. Serial No. 515,631. 3 Claims. (Cl. 106—40.)

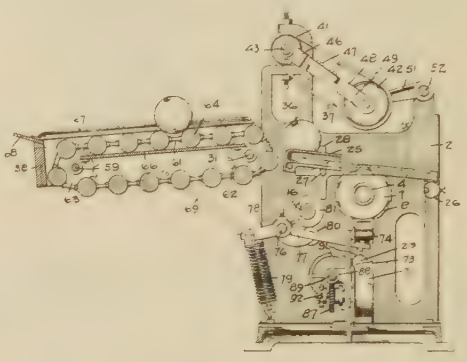
1. In a method of preparing artificial silks of standardized dyeing speed, the steps comprising preparing several batches of silk, and subjecting batches of slower dyeing speed to an after-treatment to effect substantial equalization of the dyeing speeds of the several batches.

1,421,291. SHOE-LACING DEVICE. PHILIP MEYER NELSON, Seattle, Wash. Filed Oct. 3, 1921. Serial No. 505,080. 1 Claim. (Cl. 24—140.)



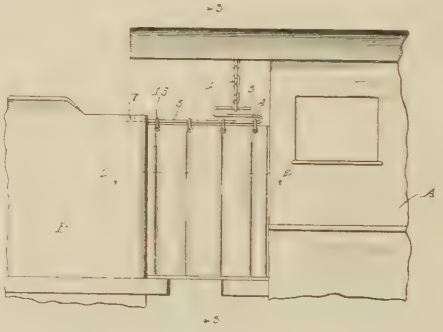
In combination with a shoe, a lace passing through the eyelets thereof, a pair of spring strips placed between the tongue and the upper, one on each side of the opening in the shoe, parts of the lacing being looped about the strips, hooks at the bottom of the strips for engaging the bottom eyelets, collars loosely surrounding said strips, adjacent the top thereof and adapted for adjustment thereon, projections carried by said collars for engaging pairs of eyelets opposite themselves for holding the lacing in position closing the opening.

1,421,292. ELECTRIC FRUIT-MARKING MACHINE. LEWIS NEUENSCHWANDER, Los Angeles, Calif., assignor to Electric Fruit Marking Machine Co., Los Angeles, Calif., a Corporation of California. Filed Mar. 12, 1921. Serial No. 451,780. 12 Claims. (Cl. 101—40.)



1. A marking machine comprising a table formed with a trough for receiving the articles to be marked and an aperture in the bottom of said trough, a die adjacent the far end of said trough, a supporting strip bridging said aperture to said die and means projecting through said aperture on both sides of said strip for feeding the articles to be marked to said die.

1,421,293. LOCOMOTIVE CURTAIN. ANTON C. OLSON, Mandan, N. Dak. Filed Oct. 18, 1920. Serial No. 417,836. 4 Claims. (Cl. 105—9.)

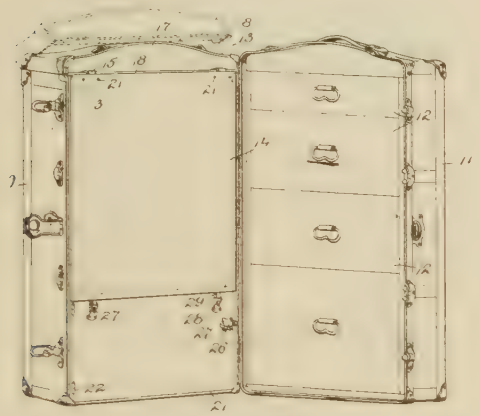


1. The combination with a cab structure and a tank structure, of a supporting rod movably connected to the tank structure and extending across the space between said structures, a movable supporting connection between the rod and the cab structure, a foldable curtain, slidable connections between the curtain and the rod, said connections being movable under the supporting connection.

1,421,294. WARDROBE TRUNK. SAMUEL ORENSTEIN, Newark, N. J. Filed Apr. 18, 1921. Serial No. 462,304. 3 Claims. (Cl. 190—13.)

1. A wardrobe trunk comprising two members hinged together, one of said members having an open side, a

flexible curtain, a strip on the bottom of the front edge of the top wall, clips on the curtain and adapted to slide



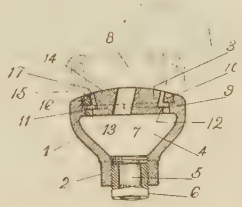
between the wall and the strip, and means for detachably securing the bottom of the curtain.

1,421,295. PISTON RING. FRANK M. OSBORNE, Anaconda, Mont. Filed Apr. 27, 1921. Serial No. 464,781. 1 Claim. (Cl. 74—109.)

A device for the purpose indicated consisting of a split ring having overlapping extremities, and a spring expander formed with alternate oppositely directed arches for bearing contact against the opposed surfaces of the body portion of the ring bottom and the ring groove of a piston, the spring being of materially reduced width with respect to the ring and the latter being provided with a seat on its inner periphery consisting of a cross sectionally V-shaped groove in which the apexes of the arches engage to preclude lateral displacement of the expander and maintain a uniform relative position of the same.

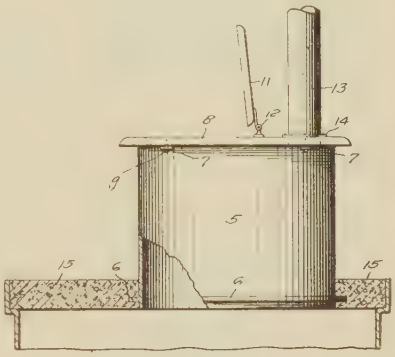
1,421,296. DRINKING FOUNTAIN. CHARLES F. OWEN, Milwaukee, Wis., assignor to Rundle-Spence Manufacturing Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed May 21, 1920. Serial No. 383,110. 6 Claims. (Cl. 299—15.)

5. A drinking fountain head comprising a casing having an orifice at its upper end for projecting an inclined stream of water upwardly and having means for projecting a surrounding curtain of water to a lesser height than said stream, and within the trajectory of said stream,



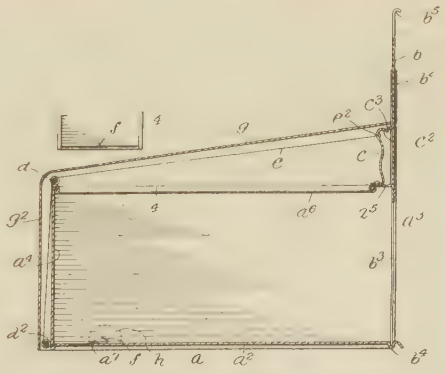
whereby the falling portion of said stream will not break up said curtain.

1,421,297. SANITARY CLOSET. EVAN J. OWEN, Gadsden, Ala., assignor to Etowah Foundry and Machine Company, Gadsden, Ala. Filed Sept. 20, 1921. Serial No. 502,028. 1 Claim. (Cl. 4—20.)



A closet of the character described comprising a tubular riser open at top and bottom, a seat spanning the top thereof, a reservoir, a concrete slab constituting the top of said reservoir and an external flange on the riser which is spaced from the lower edge thereof and is embedded in the concrete of the slab at such point that the concrete will lie both above and below said flange.

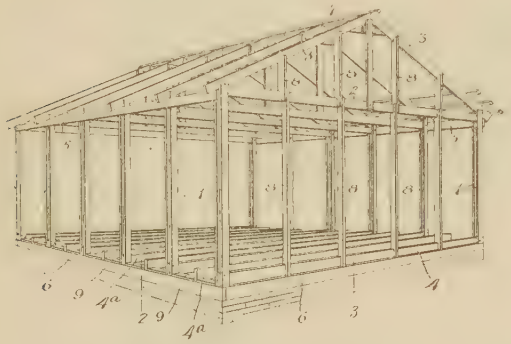
1,421,298. TRAP. SANTIN P. PAETTA, New York, N. Y. Filed Aug. 25, 1921. Serial No. 495,217. 5 Claims. (Cl. 43—61.)



2. A trap comprising a box member provided with a vertically movable door, a spring trigger device mounted in connection with the top of said box and operating in

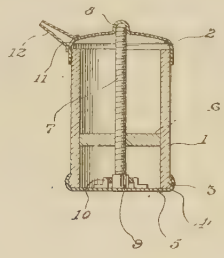
connection with a tongue with which the door is provided, said box being also provided at the top and bottom thereof opposite the door with external grooved wheels, a cord connected with the trigger device and passed backwardly and downwardly and around said grooved wheels beneath the box member and upwardly into the bottom of the box member and provided with a bait attachment therein and said cord and said grooved wheels being provided with a shield.

1,421,299. BUILDING CONSTRUCTION. FRANK A. PALEN, New York, N. Y. Filed Apr. 8, 1920. Serial No. 372,166. 3 Claims. (Cl. 20—2.)



3. A frame unit for building constructions, comprising a pair of columns, each comprising two parallel pieces rigidly connected together but in spaced relation to each other, two transverse tie pieces connecting each pair of columns and passing between the pieces of each column and serving to space the two pieces of each column, rafters secured to said columns between the two parts thereof, with means for connecting the upper ends of said rafters.

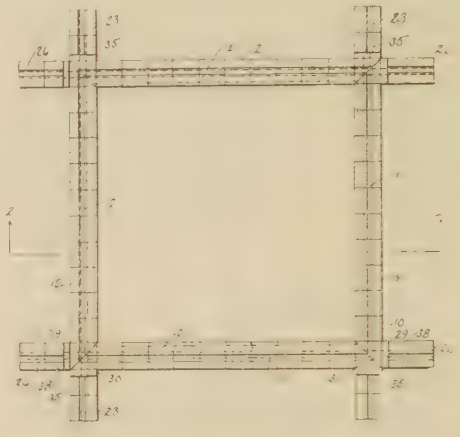
1,421,300. DISPENSER. GEORGE PARKER and CHARLES J. DARABAN, Chicago, Ill. Filed Sept. 7, 1920. Serial No. 408,549. 1 Claim. (Cl. 91—62.5.)



A dispenser comprising a casing, a top screw-threaded thereto and provided with a spout and having a centrally arranged bearing, a clip attached to the bottom of the casing and provided with a hole, a plunger, and a feed screw having a head portion detachably arranged in said hole, and its other end mounted in said bearing and engaging said plunger.

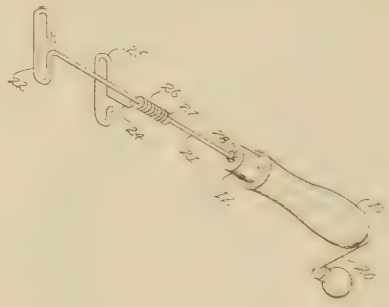
1,421,301. PICTURE FRAME. ALEX PETROW, San Francisco, Calif. Filed Dec. 7, 1921. Serial No. 520,569. 2 Claims. (Cl. 40—155.)

2. A picture frame of the character described comprising a plurality of side and end bars overlapping one another near the end, blocks having a lower hole adapted to be filed on said side bars, blocks having an upper hole adapted to be filed on the end bars, blocks each having an upper and a lower hole and adapted to fit to one another to form a mitre joint at the meeting places of the overlapping ends of said end and side bars, end blocks for said side and end bars each provided with a threaded hole for the reception of screws for securing said end



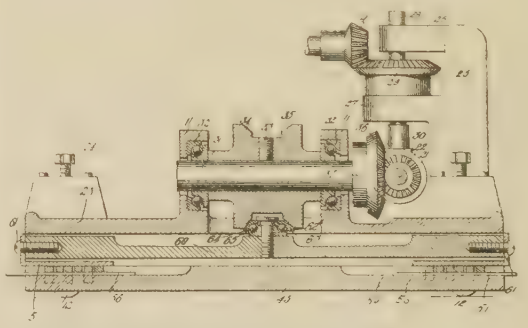
blocks on said bars, and a plurality of blocks having lateral as well as end rounded ridges to be inserted between said end blocks and said mitre joint forming blocks.

1,421,302. SCRUBBING DEVICE. HARRY C. PITTINGER, Oakland, Calif. Filed Mar. 19, 1921. Serial No. 453,580. 2 Claims. (Cl. 15—120.)



1. In a device of the character described, including a tubular handle, a cap secured on said handle, a rod extending through said handle, a crank formed integral with said rod, a movable arm slidably mounted on said rod, a scrubbing element connected to said rod and said arm, and means carried by said cap for preventing rotation of said movable arm with respect to said handle.

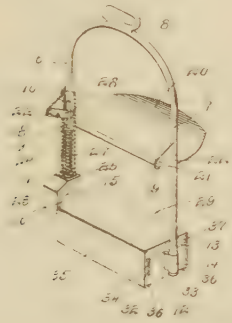
1,421,303. PORTABLE SANDING, ABRADING, AND POLISHING MACHINE. MAURICE NORVAL PRANGE, Detroit, Mich. Filed July 20, 1920. Serial No. 397,731. 2 Claims. (Cl. 51—175.)



1. A device of the character described comprising a frame, a platform immovably carried by said frame, said

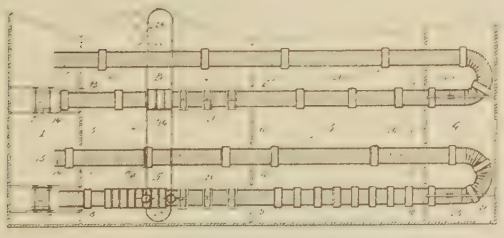
platform having its under surface provided with a plurality of channels, guides mounted in each of said channels, an abrading element mounted in each of said channels and supported by said guides, a vertically-extending member carried by each of said abrading elements and projecting through an opening in the platform, a plurality of cam wheels adapted for engagement with each of the vertically-extending members whereby the abrading elements are reciprocated upon rotation of the cam wheels, and means for driving said cam wheels in unison, as and for the purpose set forth.

1,421,304. STIRRUP. WILLIAM T. PRATER, Bloomfield, Mo. Filed May 10, 1919. Serial No. 296,062. Renewed Nov. 26, 1921. Serial No. 518,073. 3 Claims. (Cl. 54—49.)



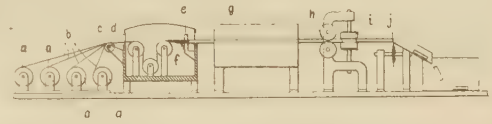
1. A safety stirrup embodying a frame, a casing supported thereon having a socket, a tread plate mounted on the frame for horizontal swinging movement, an upstanding foot carried by said tread plate and adapted to engage in the socket of the casing in the operative position of said plate, a latch bolt mounted in said casing for locking the tread plate therein, and means supported on the frame and having connection with the upper end of the latch bolt for causing the release of said bolt from said plate.

1,421,305. INDEPENDENT ZONE PLAN FOR CONTINUOUS FOUNDRY OPERATIONS. CLARENCE K. PRINCE, Westfield, Mass. Filed Sept. 18, 1920. Serial No. 411,158. 4 Claims. (Cl. 22—20.)



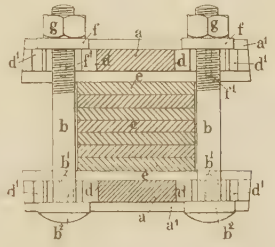
1. In an apparatus of the kind described, the combination with a suitable structure divided into a plurality of separated and independent zones or stations, of a continuous gravity runway unit extending through all of said zones, the portions of each unit located in the various zones each receiving the casting apparatus for carrying out one of the different foundry operations, said operations being carried out continuously and independently of each other, each in a distinct zone.

1,421,306. METHOD FOR THE MANUFACTURE OF TUBULAR WALL PLUGS FROM STRING OR LIKE MATERIAL. JOHN JOSEPH RAWLINGS, South Kensington, London, England, assignor of one-half to The Rawlplug Company Limited, South Kensington, London, England, a Corporation of Great Britain. Filed June 19, 1920. Serial No. 390,232. 2 Claims. (Cl. 154—2.)



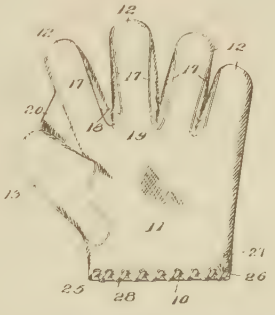
1. A method of manufacturing tubular wall plugs, consisting in gathering together a plurality of separate strands of fibrous material, arranging these strands in a bundle side by side in substantially parallel relation, coating the strands with an adhesive, opening the bundle of strands to a tubular form, stripping off superfluous adhesive, drying the adhesive coating, compressing and shaping the exterior of the tubular bundle, and dividing the said bundle into separate plugs.

1,421,307. ARRANGEMENT FOR THE INSTANTANEOUS REPAIRS OF SUSPENSION SPRINGS OF VEHICLES. FERNAND RAPHAEL GASTON RAYNAUD, Paris, France, assignor to Societe Anonyme Des Etablissements Raynaud & Bourceret, Paris, France. Filed Apr. 30, 1921. Serial No. 465,746. 5 Claims. (Cl. 267—51.)



1. A repairing device for vehicle suspension springs comprising two pair of bridges or coupling plates, each formed with a longitudinal slot at each end, a bolt engaged in each slot and connecting the bridges or coupling plates two by two, a polygonal washer on the said bolt, a tightening nut screwed on the said bolt, means for adjusting the position of the said bolts according to the width of the spring, and means for preventing the unloosening and the accidental loss of the said bolts.

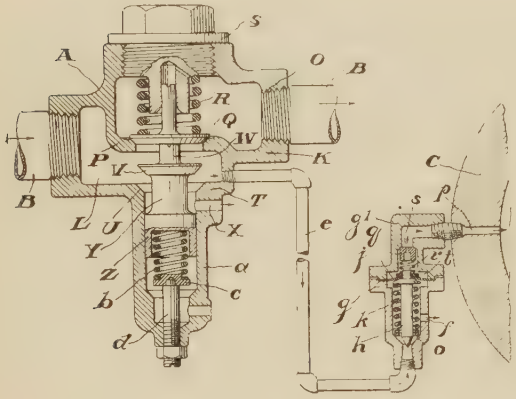
1,421,308. BASEBALL GLOVE. REUBEN RAYMOND, Napa, Calif. Filed July 27, 1921. Serial No. 487,849. 11 Claims. (Cl. 2—195.)



1. A baseball glove comprising a front piece having finger members, a series of back pieces having finger mem-

bers, and a triangular crotch piece disposed at the crotch of the finger members with a curved apex at the back piece seams and its base at the front piece and secured to the longitudinal seams of the fingers upon curved lines.

1,421,309. COMPRESSOR UNLOADER. SNOWDEN B. REDFIELD, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Jan. 17, 1921. Serial No. 437,788. 16 Claims. (Cl. 230—24.)

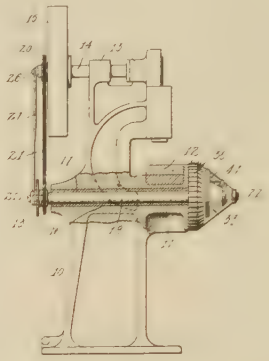


1. A compressor unloader, comprising a main valve casing adapted to be connected in the discharge line of a compressor, a main discharge valve controlling the outlet from said casing to the discharge line, a vent to atmosphere from said casing, automatic means for preventing the opening of said main discharge valve until the compressor has attained sufficient speed to permit the load to be safely thrown on the compressor and automatic means controlled by the pressure in the compressor cylinder for relieving the pressure remaining in the main valve casing as the compressor comes to a stop.

15. An unloader for compressors, comprising a valve casing adapted to be connected in the discharge line of a compressor and having a main valve chamber, a main check valve controlling the discharge outlet from the said casing, an auxiliary relief valve controlling an atmospheric vent from said main chamber, a piston connected to said relief valve and subject to the pressure in the main chamber tending to close the relief valve and opposed by means tending to open the relief valve, an auxiliary bleeder valve, a connection from the main valve chamber to said auxiliary bleeder valve, said bleeder valve being controlled by the pressure in the compressor cylinder, whereby the pressure remaining in the main valve casing is relieved before the re-starting of the compressor, and the main check valve will not be open to load the compressor until the relief valve has closed, due to the building up of a predetermined pressure in the said main chamber of the casing.

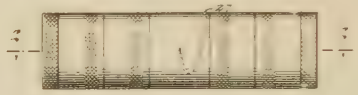
1,421,310. RIVET-FEEDING MECHANISM. ARISTIDE FREDERICK RENAUD, New Orleans, La., assignor to The Renaud Company, Cincinnati, Ohio, a Corporation of Ohio. Filed May 3, 1920. Serial No. 378,561. 7 Claims. (Cl. 78—49.)

1. A rivet feeding mechanism, comprising a rivet magazine adapted to contain a supply of rivets, a distributing head on said magazine, means for effecting radial projection of the rivet shanks from said head at a predetermined point, means for confining the removal



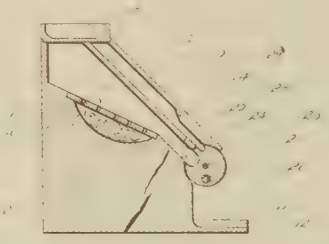
of the rivets to such point, and means arranged within the magazine for agitating the rivets.

1,421,311. COMBINATION VANITY CASE. ARTHUR E. ROPE, Brooklyn, N. Y. Filed Feb. 23, 1922. Serial No. 538,661. 3 Claims. (Cl. 132—81.)



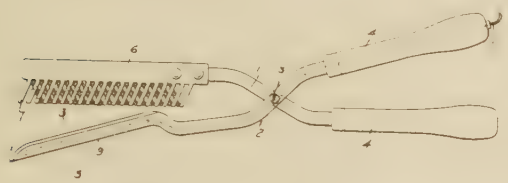
3. A vanity case, comprising a central or intermediate compartment, a series of cups in the said compartment, containers in certain of the cups, the other of said cups adapted to receive articles therein, other compartments removably connected to the intermediate compartment, end compartments removably connected to the last-mentioned compartments, covers on the last-mentioned compartments, all of said compartments and covers having a like arrangement of screw threaded engagement, whereby an interchange and rearrangement of parts is permitted, and a supporting member connected to the central or intermediate compartment.

1,421,312. CONTAINER AND DELIVERY MECHANISM. CLIFFORD D. ROSAN, New Haven, Conn. Filed Apr. 21, 1921. Serial No. 463,194. 9 Claims. (Cl. 211—8.)



1. An article of manufacture having a plurality of compartments, one for a plurality of matches and the other for a plurality of cigarettes or the like; and rotary means for successively delivering a single article from each of said compartments at substantially one and the same time.

1,421,313. CURLING IRON. ARNOLD SCHÄRER, New York, N. Y. Filed July 12, 1921. Serial No. 484,123. 3 Claims. (Cl. 132—35.)

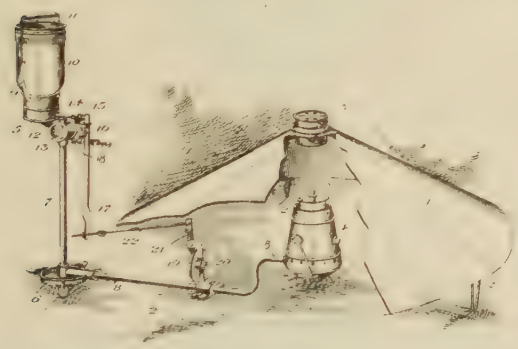


1. In a curling iron, pairs of comb members, sets of teeth on said members located at angles to the transverse plane of said members and oppositely inclined relative to each other, and tongues movable between and coacting with the teeth to curl a strand of hair.

1,421,314. PROTECTOR FOR COLLAR AND CUFF BUTTONS. FRANK F. SCHULTZ, New York, N. Y. Filed June 7, 1921. Serial No. 475,641. 4 Claims. (Cl. 24—90.5.)

1. A shirt button which comprises a base portion, a split shank mounted thereon and formed of two parts, and a flexible strip of material adapted to be spaced along substantially its entire length above the base portion, said strip having lugs adapted to engage with one portion of the split shank and to be fastened thereto to fasten the strip to the shank portion.

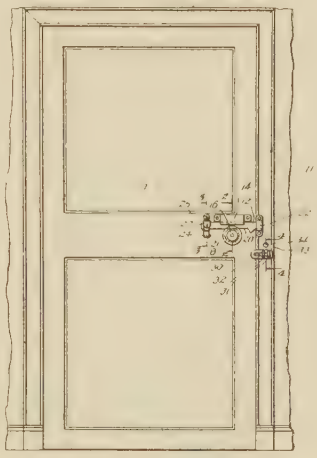
1,421,315. HEATER FOR BROODERS. HENRY M. SHEER, Quincy, Ill. Filed Feb. 14, 1920. Serial No. 358,629. 2 Claims. (Cl. 237—3.)



2. A portable heating system comprising an oil container, a burner, a base arranged between the container and burner, a feed-pipe arranged between the container and burner, a portable canopy arranged over the burner, an oil control mechanism arranged adjacent the oil container and externally of the portable canopy, and a thermostatic control means arranged within the portable canopy and connected to the oil control mechanism to control the flow of oil to the burner.

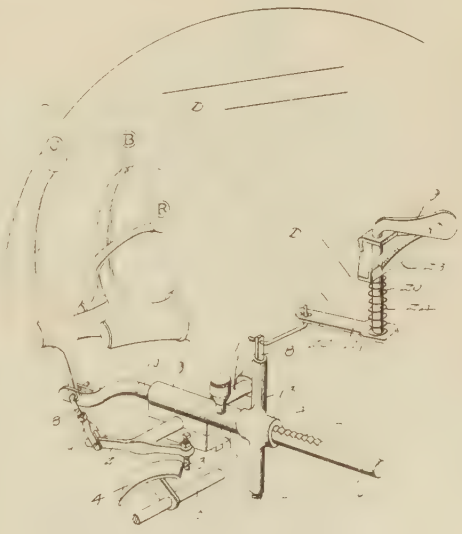
1,421,316. LOCK. JACK SLAIBELLE, Ludlow, Vt. Filed Sept. 23, 1920. Serial No. 412,194. 3 Claims. (Cl. 292—148.)

3. A door fastening means embodying a sliding bolt having rack teeth, a rotary shaft extending through the door having inner and outer knobs secured to the opposite extremities thereof, a pinion secured to said shaft and engageable with the rack teeth for effecting sliding movements of the bolt, a peripheral guard flange on the outer side of said pinion between which and the door the bolt is arranged, a bearing plate secured to the inner side of the



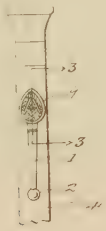
door, a guard flange on the bearing plate between which and the door the opposite side of the bolt is received, said bolt having a transversely grooved portion and a hasp swingingly mounted for engagement with the grooved portion of the bolt when the same is in locked position, and means for locking said hasp in said groove.

1,421,317. DUPLEX SAFETY-CLUTCH CONTROL. SHERIDAN S. SNELL and LANCELOT H. SNELL, Masontown, Pa. Filed June 15, 1921. Serial No. 477,757. 5 Claims. (Cl. 74—81.)



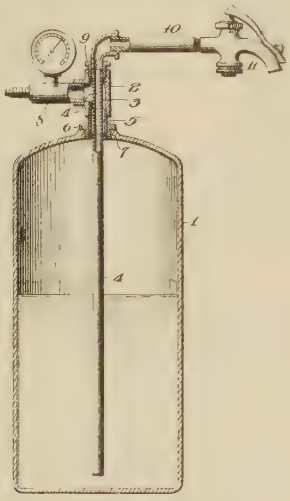
1. A safety clutch control comprising a guide, a rack bar slidable in the guide, a member mounted upon and rotatable about the guide and a dog carried by said member and adapted to engage the rack bar when the member is in one position or to clear the rack bar when the member occupies a different position.

1,421,318. CLIP. WILLIAM C. STEFFAN, FRANK B. ACKERMANN, and WALTER J. GREINER, Chicago, Ill. Filed Oct. 9, 1920. Serial No. 415,728. 7 Claims. (Cl. 24—11.)



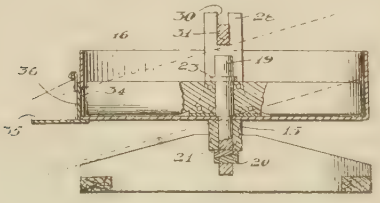
1. A clip for pens or pencils including a spring arm, an attaching portion on said arm, a head provided with a recess in its back surface to receive said attaching portion, said recesses being equal in depth to the thickness of said attaching portion whereby the outer surface of the attaching portion will lie flush with the back of said head.

1,421,319. OIL-TRANSFER DEVICE. ALBERT D. STERN, Philadelphia, Pa. Filed Apr. 18, 1921. Serial No. 462,378. 2 Claims. (Cl. 221—74.)



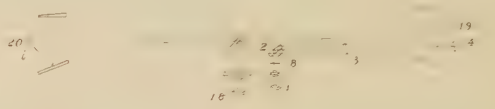
1. In an oil transferring device of the character stated, a tank, an oil discharging pipe therein in communication therewith, a hollow member forming an air receiving chamber adapted to be in communication with a source of air under pressure, a discharge neck in communication with said pipe, a nut-like member engageable with said chamber and adapted to connect said neck with said hollow member and pipe, and a nut-like member connectible with the wall of said tank to support said chamber, pipe, discharge neck, and appurtenances, and to connect them with said tank.

1,421,320. CONCRETE MIXER. JAMES STOCKLEY, Halifax, Nova Scotia, Canada. Filed Aug. 8, 1921. Serial No. 490,687. 3 Claims. (Cl. 83—73.)



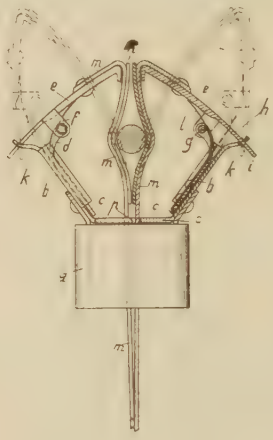
1. A concrete mixer comprising a base formed with bearing blocks, a square axle formed with circular ends journalled in the bearings, a pan rigidly mounted on the axle, an upright shaft mounted in the pan, a hub on the shaft formed with oppositely inclined pairs of ears, blades carried by the ears, plates on the hub having notched extensions and an arm located in the notches, adapted to rotate the blades and rock the pan.

1,421,321. SHORT-BASE RANGE FINDER. HAROLD DENNIS TAYLOR, Bishopshill, England, assignor of one-half to Alfred Taylor, Bishopshill, York, England. Filed Apr. 28, 1919. Serial No. 293,289. 4 Claims. (Cl. 88—2.6.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



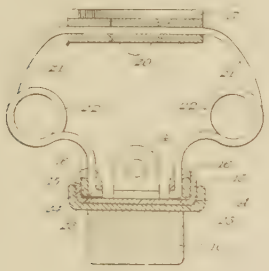
1. A device for testing the adjustment of optical squares of range finders comprising in combination a collimating telescope system, a collimating mark, and a small plane reflecting mirror mounted on the framework of the said optical squares.

1,421,322. WORKING CLAW FOR HAND OR ARM AMPUTATED PERSONS. ALFRED THIELE, Dresden, Germany. Filed Aug. 9, 1920. Serial No. 402,477. 1 Claim. (Cl. 3—12.)



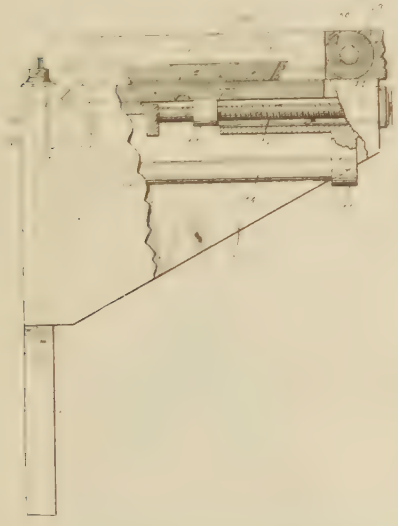
An improved working claw for hand- or arm-amputated persons comprising in combination with a holding sleeve to be placed upon the support fixed to the arm, outwardly inclined hollow guide pieces in said holding sleeve extending to the right and to the left, a lateral extension at the upper end of each hollow guide piece having a guide slot, a slide in each hollow guide, a plate pivotably connected with the outer end of each slide and engaging with its tail piece in the guide slot of the lateral extension of the corresponding hollow guide piece, a blade spring fixed to each slide and bearing against the lower surface of the corresponding hinged plate, a disk upon the upper end of said holding sleeve having two transvere slots, a gripping strap attached with its outer end to the upper surface of the corresponding plate and conducted through the corresponding slot of the said disk to be connected with a traction organ, substantially as described and shown and for the purpose set forth.

1,421,323. TIRE. MATT A. VOLF, Pickens, W. Va. Filed May 6, 1921. Serial No. 467,372. 2 Claims. (Cl. 152—8.)



1. In combination, a tire rim formed to provide channels at the sides thereof, one wall of each channel having a plurality of spaced openings, a tire tread, and resilient elements supporting said tread in spaced relation to the rim, said elements having their terminals received by said openings, and means interposed between said elements and the sides of the rim for securing the resilient elements to the rim.

1,421,324. LATHE ATTACHMENT. JOHN WAITCH, Pittsburgh, Pa., assignor of one-half to Frank Lasevicius, Laporte, Ind. Filed Mar. 5, 1920. Serial No. 363,400. 3 Claims. (Cl. 90—58.)

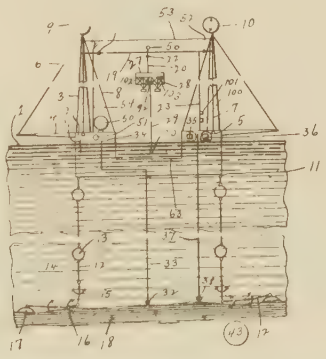


1. A device of the class described, comprising a base, a table adjustable on said base and having extensions overlapping the sides thereof, keys fitting in registering grooves in the base and table thereby the latter is slidably held on the base, a slide on said table movable transversely of the base, and a work holder on said slide movable transversely thereto, and means for adjusting said table on said base, said means comprising a rack on said base, a pinion meshing with said rack and rotatably carried by said base, and a worm gear device for rotating said pinion.

1,421,325. VACUUM VESSEL. WILLIAM B. WALKER, New York, and CHARLES R. H. VISSCHER, Brooklyn, N. Y., assignors to American Thermos Bottle Company, New York, N. Y., a Corporation of Maine. Filed Dec. 21, 1921. Serial No. 523,938. 10 Claims. (Cl. 215—13.)

1. A vacuum vessel comprising separated receptacles connected at their necks and enclosing a vacuum chamber between their bodies, the outer receptacle being recessed and a sealing teat within the recess.

1,421,326. MEANS FOR ELECTRICALLY PROPELLING AND COMMUNICATING WITH AERIAL VEHICLES AND MARINE VESSELS. CHARLES W. WALLER, Chicago, Ill. Filed Dec. 14, 1918. Serial No. 266,831. 98 Claims. (Cl. 104—23.)

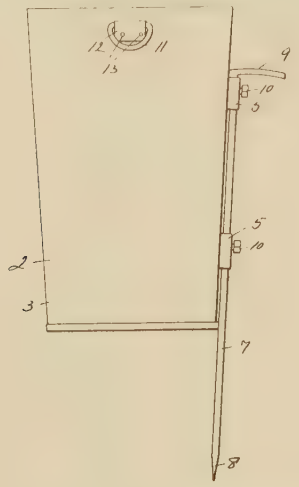


3. In means for electrically propelling marine vessels, a plurality of floats on a body of water, said floats provided with a trolley wire, a vessel provided with an electric motor, electric current collecting means, and said vessel and electric current collecting means being connected with an electric following member provided with a gas container.

1,421,327. FLOWERPOT OR BOUQUET HOLDER. THOMAS C. WATERS, Shenandoah, Pa. Filed July 20, 1921. Serial No. 486,253. 2 Claims. (Cl. 47—18.)

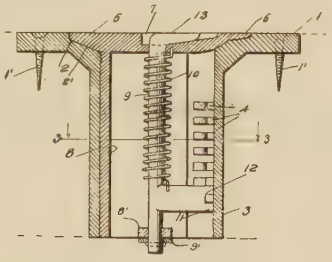
1. A flower holder consisting of a receptacle, a pair of spaced sockets in vertical alignment on the exterior

of said receptacle, a rod slidably mounted in said sockets, an integral handle formed with the upper end of said



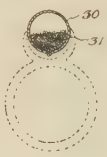
rod to be used for forcing said rod in the ground or as means to hang the device over an object, and means to hold said rod in different adjusted positions.

1,421,328. BENCH STOP. ISAAC J. WATTS, King City, Calif. Filed June 23, 1921. Serial No. 479,815. 2 Claims. (Cl. 144—306.)



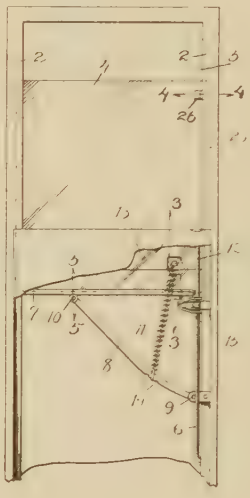
1. A bench stop providing a socket member provided with retaining means therein, a guide member slidably mounted in the socket member, a stop plate on said guide member capable of disposition in its upper surface flush with the upper surface of the socket member, said plate having a recess in its upper surface, a key journaled in said plate, said key having a head adapted to engage said retaining means, said key at the outer end having an angular extremity disposed in said recess below the upper surface of the stop plate, and a spring secured to the stop plate and the key tensioned to normally maintain the key in engagement with said retaining means.

1,421,329. GEM. HORACE H. WELCH, Chicago, Ill. Filed Jan. 5, 1921. Serial No. 435,075. 8 Claims. (Cl. 63—2.)



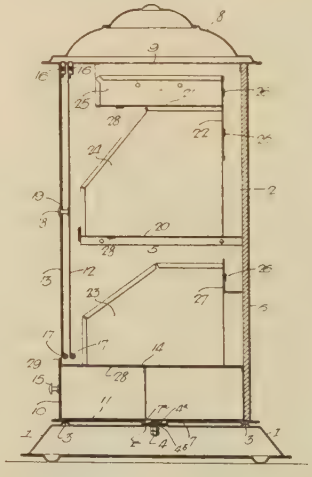
2. An article of jewelry to be worn on the person including an artificial gem, said gem comprising a hollow body and a sufficient number of loose brilliant display elements housed and movable in said body to give to the gem as a whole the appearance of internal mobility upon movement of the article, said body being sufficiently translucent to render visible therethrough the moving brilliant display elements.

1,421,330. WINDOW REGULATOR. GEORGE W. WELLS, Amesbury, Mass., assignor to Powow Manufacturing Company, Amesbury, Mass., a Corporation of Massachusetts. Filed Oct. 13, 1920. Serial No. 416,598. 4 Claims. (Cl. 292—306.)



1. In means for adjusting and maintaining the adjustment of windows, a frame having guides, a glass movable therein, a rod, a head adapted to move the glass and slidable upon said rod and having an oblique spring jaw having binding engagement with said rod and adapted for release by movement to a position of greater obliquity relative to said rod, and an operating device adapted to contact with and move said jaw to a position of such greater obliquity and thereafter to contact with said head and move the glass.

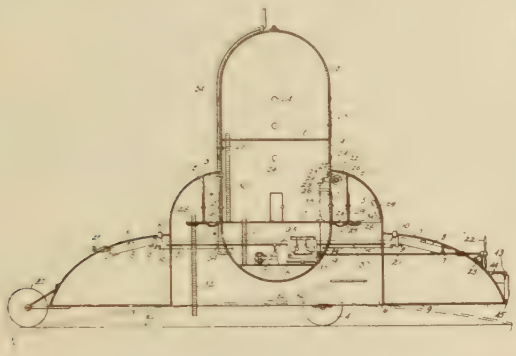
1,421,331. METAL REVOLVING CABINET. AUGUSTUS A. WEST, Philadelphia, Pa., assignor to West Electric Hair Curler Company, Philadelphia, Pa., a Corporation of Delaware. Filed Jan. 27. 1922. Serial No. 532,161. 1 Claim. (Cl. 211—20.)



A cabinet comprising a base, a body revolubly mounted on the base, an annular elevation at the top of the base

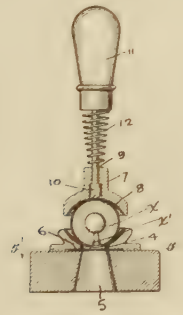
having apertures therein, rollers extending through the apertures to constitute bearings for the body, and pins extending laterally through the sides of the elevation and constituting bearings for the rollers.

1,421,332. DIVING BELL. MANLEY A. WHITE, Beverly, Mass. Filed Sept. 25, 1920. Serial No. 412,638. 3 Claims. (Cl. 61—69.)



1. A device of the character described comprising a substantially semi-circular inverted member, partitions dividing said semi-circular member and forming air compartments diametrically disposed with respect to one another, pontoon compartments diametrically disposed with respect to one another and secured to the inverted member, a housing mounted in the inverted member, partitions dividing said housing into a plurality of compartments, and means for supplying air under pressure to said compartments, substantially as described.

1,421,333. FRUIT PITTER. ROBERT B. WILCOX, The Dalles, Oreg., assignor to Libby, McNeill & Libby, Chicago, Ill., a Corporation of Maine. Filed Apr. 8, 1921. Serial No. 459,688. 1 Claim. (Cl. 146—5.)



A fruit pitter comprising a cup-shaped base member having a central passage therethrough and adapted to contain a fruit to be pitted; a resilient closure covering the passage in said base and provided with slits therein to prevent movement of the fruit to be pitted therethrough; a cup-shaped member adapted to hold the fruit to be pitted in said base; a plunger slidably mounted in said upper cup-shaped member and adapted to engage the fruit to be pitted and to force the pit therefrom through the passage in said base and through the slit provided in the resilient closure in said base; a handle on said plunger and spring means interposed between said handle and movable member for resisting movement of said plunger relative to the upper cup-shaped member.

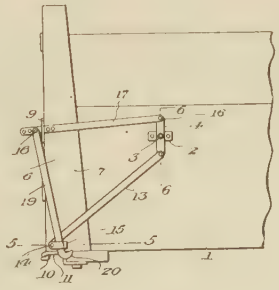
1,421,334. TOY GUN. BROWN THOMAS WILLIAMS, San Francisco, Calif. Filed Nov. 30, 1920. Serial No. 427,367. 8 Claims. (Cl. 42—54.)

1. A toy gun comprising a barrel; an impact block secured in said barrel at the muzzle end thereof; a spring actuated firing rod slidably mounted within said barrel, said firing rod having a slotted tubular portion at the rearward end thereof; a cocking bolt slidably mounted within said tubular portion for moving the firing rod to a cocked position; a plug, having a bore arranged to slidably engage the firing rod, mounted within the barrel adjacent the slotted tubular portion of said firing rod; means for independently advancing the cocking bolt from the cocked position into said tubular portion until arrested by said plug to permit independent movement of the firing rod; and means for releasing said firing rod from the cocked position to discharge an explosive pellet against the impact block.

1,421,335. BUILDING CONSTRUCTION. GEORGE LESTER WILLIAMS, New York, N. Y., assignor to Gertrude F. Stewart, Pasadena, Calif. Filed May 27, 1921. Serial No. 473,206. 8 Claims. (Cl. 72—71.)

2. In a building construction, in combination, a plurality of slabs of plastic material provided with end flanges which cooperate to form the bottom wall of a space between the end walls of adjacent slabs, transverse reenforcing members for said slabs supported by said flanges, longitudinal reenforcing members for said slabs having their ends extended through the end walls thereof above said transverse reenforcing members and connected together within the space between said slabs to form a continuous longitudinal reenforcement for the slabs, and plastic material filling the space between adjacent slabs to form a monolithic plastic structure having a continuous longitudinal reenforcement and individual transverse reenforcements.

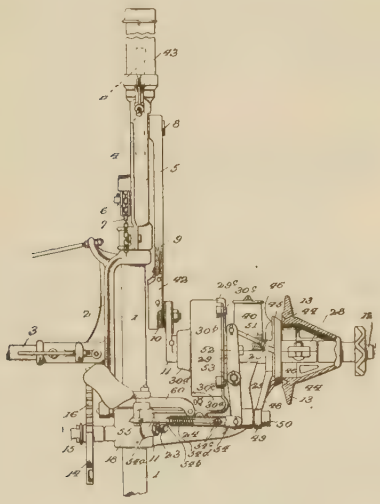
1,421,336. SCOOP BOARD. CARL WOODS, Griggsville Ill. Filed May 31, 1921. Serial No. 473,713. 2 Claims. (Cl. 296—58.)



1. In combination with a wagon body, of a scoop board therefor, comprising a member having flanged sides and

which is hingedly connected to the bottom of the body, rocker arms on the sides of the body, links pivotally connected to the rocker arms and to the lower and outer corners of the body, arms pivotally connected to the upper ends of the rocker arms, a lever having a hooked end adjustably connected to each of the arms, said board having projecting bails through which the levers pass and which are designed to be engaged by the levers when the board is in lowered position and the weight of the board designed to exert a pull on the levers to cause the same to draw on the rods to swing the links to bring the board in tight engagement with the body, and said levers designed to be swung on the arms when the latter have passed through the bails when the board is brought to closed position, and means on the board for engaging with the levers for sustaining the same at an angle and for again causing the levers to draw on the arms to swing the rocker arms to influence the links to bring the board in tight engagement with the end of the body.

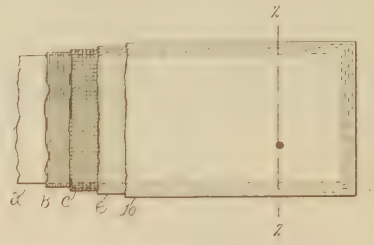
1,421,337. WINDMILL. RODNEY H. YALE, PAUL W. HUTCHINS, and KARL MERTING, Lincoln, Nebr., assignors to Yale and Hopewell Company, Lincoln, Nebr., a Corporation of Nebraska. Filed Aug. 21, 1920. Serial No. 405,065. 54 Claims. (Cl. 170—47.)



1. In a windmill head, in combination, a main shaft, a wind wheel in fixed driving relation to said shaft for actuating the same, a driven shaft, and reducing gearing in constant fixed operative relation with respect to said shafts for driving the driven shaft from the main shaft continuously at a fixed ratio during rotation of the windwheel, said gearing embodying an internal gear, a center pinion, and pinions in mesh with and interposed between the center pinion and said gear for balancing the gearing tooth pressures, said gear and pinions being in constant fixed operative relation with said shafts, means being provided enclosing said gearing in a grease-tight grease chamber.

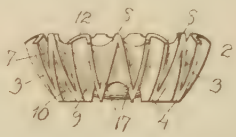
1,421,338. PROTECTED METAL ARTICLE. JAMES HOWARD YOUNG, Pittsburgh, Pa., assignor to H. H. Robertson Co., Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Feb. 27, 1920. Serial No. 361,726. 2 Claims. (Cl. 154—45.9.)

2. A protected metal article comprising a metal article provided with a coating of hydrocarbonaceous weather-resisting flexible material of substantial thickness and substantially non-adhesive at ordinary temperatures but rendered adhesive by heat, and a coating of anti-stick



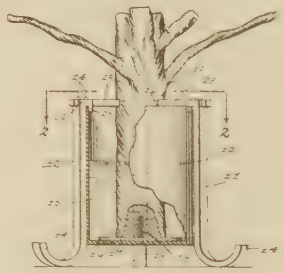
material soluble in water and composed of a cellulose base and a soapy material covering said hydrocarbonaceous coating.

1,421,339. GEM SETTING. JOSEPH ZALOWITZ, New York, N. Y. Filed Aug. 10, 1921. Serial No. 491,172. 5 Claims. (Cl. 63—28.)



1. In a gem setting for clusters, a body having tapered seats in an annular series and a central tapered seat, the peripheries of said seats meeting each other to form projections located between the seats and adapted to be upset to secure the stones in said seats in position, the outer of said projections being cut away to provide V-form projections and point projections in line radially with the centers of said seats and the center of the setting.

1,421,340. CHRISTMAS-TREE STAND. STANLEY ZELAZO, Adams, Mass. Filed June 29, 1921. Serial No. 481,235. 1 Claim. (Cl. 248—38.)



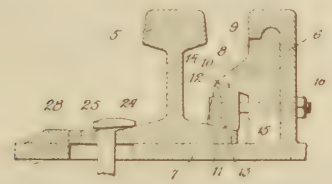
In a tree stand of the character described, a receptacle adapted to contain water, vertical legs having curved feet and flanges on the upper ends of said legs adapted to grip over the upper marginal edge of said receptacle for supporting said receptacle, a reinforcing plate secured to the bottom of said receptacle, a pin centrally arranged in said plate and adapted to engage a bore in the tree for holding and securing the lower end of the tree to the bottom of said receptacle, a plurality of radially arranged perforated plates supported by said flanges, upstanding flanges on said plates, a plurality of sharp pointed arms guided between the flanges on said plates and adapted to be secured in their relative adjusted positions to said plates by means of bolts passing through the perforation in said plates.

1,421,341. FILTER AND METHOD OF PRODUCING SAME. RICHARD ZSIGMONDY, Gottingen, and WILHELM BACHMANN, Hanover, Germany. Filed July 23, 1919. Serial No. 312,878. 24 Claims. (Cl. 210—203.)

1. The method of making filters which consists in dissolving a cellulose ester in solvent mixtures and evaporating the solution in a moist atmosphere.

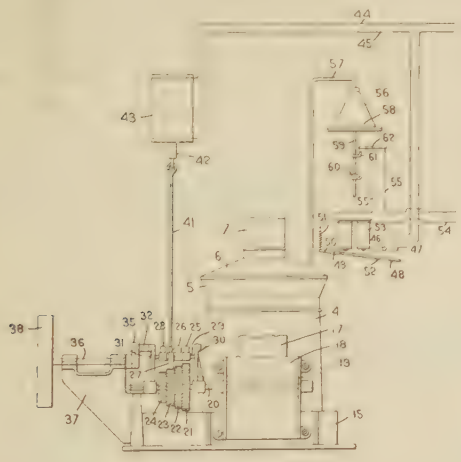
19. As a new article of manufacture, a filtering medium consisting of cellulose ester and produced by dissolving a cellulose ester in solvent mixtures and evaporating the solution in a moist atmosphere.

1,421,342. INTEGRAL GUARD RAIL. VICTOR ANGERER, Ridley Park, Pa., assignor to William Wharton, Jr. and Company, Incorporated, Easton, Pa., a Corporation of Pennsylvania. Filed Apr. 14, 1922. Serial No. 552,493. 19 Claims. (Cl. 238—19.)



12. The combination of a running rail, a guard rail having a base which underlies the running rail, and an adjustable spacer between said rails.

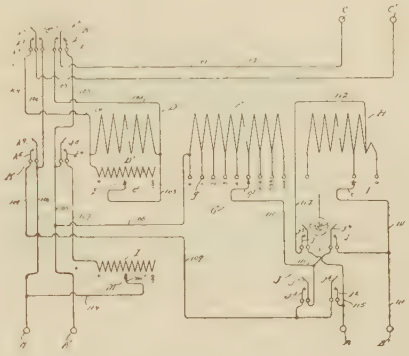
1,421,343. AUTOMATIC FEED REGULATOR FOR MACHINES HAVING AIR SEPARATORS. PETER J. GAGNON, Jr., Lowell, Mass., assignor of one-third to J. L. Henderson and one-third to Albert Gagnon, both of Lowell, Mass. Filed Sept. 24, 1921. Serial No. 503,037. 10 Claims. (Cl. 83—44.)



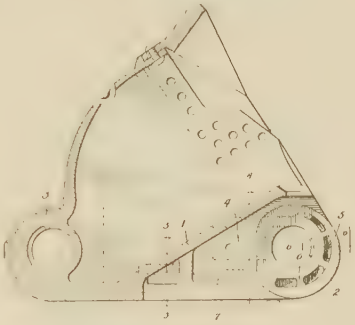
1. In a machine of the class described comprising feeding means and an air separator for removing the finished material, and means for regulating the feeding means operable by variations of the air pressure in said air separator.

1,421,344. AUDIBILITY METER. EUGENE GARRETSON, Buffalo, N. Y., assignor to Federal Telephone and Telegraph Co., Inc., Buffalo, N. Y., a Corporation of New York. Filed May 8, 1919. Serial No. 295,808. 9 Claims. (Cl. 179—175.)

4. An audibility meter comprising a primary winding, a secondary winding, a shunt resistance for the primary winding, means for connecting external appliances and circuits with the windings, and means including the primary winding for measuring the sensitiveness of such external appliances by predetermined steps.

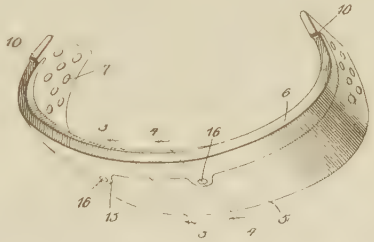


1,421,345. DREDGE BUCKET. GEORGE R. HANKS, High Bridge, N. J., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J., a Corporation of New Jersey. Filed Aug. 1, 1921. Serial No. 488,830. 7 Claims. (Cl. 37—23.)



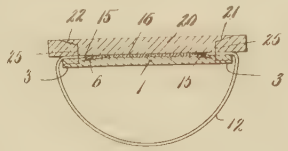
1. A manganese steel dredge bucket bottom having the metal bounding the eyes thereof formed with re-entrant portions to provide for uniform cooling following heat treatment.

1,421,346. SECTIONAL LIP FOR DREDGE BUCKETS. ROBERT W. SEYMS, San Francisco, Calif., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J., a Corporation of New Jersey. Filed Sept. 21, 1921. Serial No. 502,197. 3 Claims. (Cl. 37—23.)



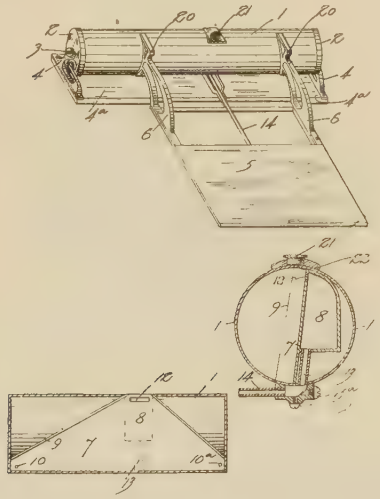
1. A lip assembly for dredge buckets, comprising a base and a tip having a tongue and groove connection, the base having terminal lugs which straddle the ends of the tip.

1,421,347. PROCESS OF MAKING SHOES. SIDNEY C. WILSON, Rochester, N. Y., assignor to Wilson Process, Incorporated, Rochester, N. Y., a Corporation of New York. Filed Sept. 26, 1919. Serial No. 326,567. 2 Claims. (Cl. 12—142.)



1. The improved process of making boots and shoes which consists in forming an insole with a marginal lip from the heel portion to adjacent the toe on each side, assembling the insole and upper materials on a last and lasting the upper by working the upper over the edge of the insole and securing it in lasted position by means of lasting tacks, partially driven in, then attaching the lasted upper by a plurality of separate fasteners to the insole lip, then removing the lasting tacks, applying an outsole and withdrawing the last, and thereupon permanently uniting the outsole, upper and insole by through and through stitching, on a line between the separate fasteners and the insole edge, and thereafter finishing the shoe in any desired manner.

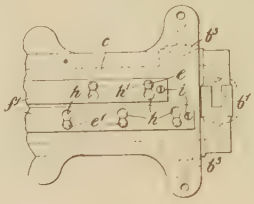
1,421,348. MEANS FOR DISINFECTING SANITARY PANS AND THE LIKE. HENRY BRADLEY, Caulfield, near Melbourne, Victoria, Australia. Filed Jan. 31, 1922. Serial No. 533,050. 5 Claims. (Cl. 4—30.)



1. The combination with a commode, comprising a casing, a receptacle therein, and a seat cover for said casing, of means for hingedly connecting said seat cover to the seat of said commode, comprising a reservoir for disinfecting fluid attached to said seat cover and means pivotally connecting said reservoir to said seat, and means within said reservoir whereby a predetermined quantity of said fluid will be discharged into said receptacle each time the seat cover is raised and lowered.

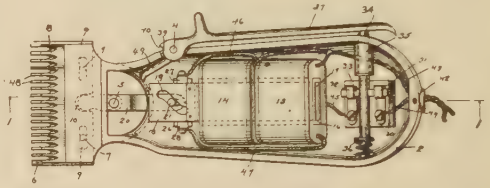
1,421,349. BISCUIT CUTTING AND EMBOSSING MACHINE. HERBERT WILLIAM HOLE, Willesden Junction, London, England, assignor to Joseph Baker Sons and Perkins Company, Incorporated, White Plains, N. Y. Filed Apr. 24, 1922. Serial No. 556,303. 3 Claims. (Cl. 107—26.)

1. In a machine of the character described, the combination with a support, of a plurality of shaping elements having portions extending entirely through the support and provided with openings, and a locking member adapt-



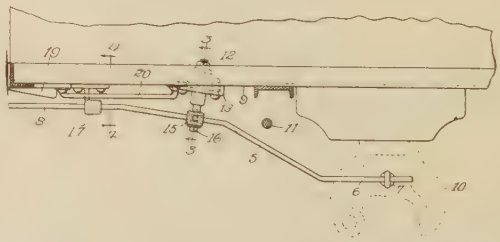
ed to extend into the openings of a series of the shaping elements for detachably connecting them to the support, said locking member engaging the top of the support.

1,421,350. HAIR-CUTTING MACHINE. EVERTON B. POWELL, Newark, N. J., assignor of one-half to Frederick N. Windridge, Cherrydale, Va. Filed Aug. 14, 1920. Serial No. 403,492. 7 Claims. (Cl. 172—126.)



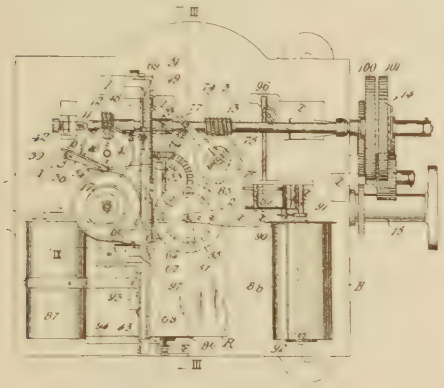
5. In a device of the class described, a substantially hollow handle, a reciprocally mounted member, a medially pivoted driving arm having its forward end connected with said member, axially alined solenoids secured within the handle, an armature for the solenoids, a connection between the armature and the rear end of the driving arm, and means for simultaneously alternately energizing one solenoid and deenergizing another in rapid succession to cause the armature to be rapidly reciprocated and rock said driving arm on its pivot to operate the said member.

1,421,351. UNCOUPLING DEVICE FOR RAILWAY CARS. GEORGE A. WOODMAN, Chicago, Ill., assignor of one-half to Charles A. Carscadin, Chicago, Ill. Filed Dec. 30, 1918. Serial No. 268,888. 4 Claims. (Cl. 213—59.)



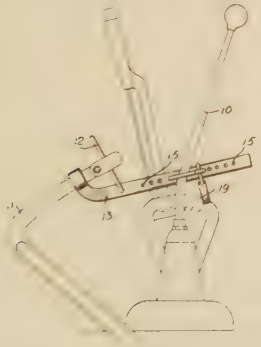
1. An uncoupling device for railway cars mounted to swing bodily and vertically in front of the end sill of the car and in a direction substantially parallel with the face of the end sill and comprising a one-piece, horizontal lever having a handle at one end and its other end engaged with a coupling pin, a movable pivot pin on the end sill engaging the lever between its ends, and means between said pivot pin and the handle of the lever to restrain the handle from moving laterally nearer than a predetermined distance from the end of the car while permitting the end of the lever engaged with the coupling pin to freely move laterally with the in and out movement of the coupler head.

1,421,352. SPEED, TIME, AND QUANTITY RECORDING INSTRUMENT. HENRI GALOPIN, Melbourne, Victoria, Australia, assignor to William Maxwell Bruce, Traralgon, Victoria, Australia, and John Norman Matheson, Sale, Victoria, Australia. Filed Jan. 3, 1922. Serial No. 526,865. 8 Claims. (Cl. 234—33.)



2. In an indicating and recording mechanism, a record strip moving mechanism, a straight reciprocating rack, a wheel gearing therewith and positively driven from the machine to be indicated for a fraction of a revolution, a second straight rack slid from a lower to a higher indicating position by said first rack, an indicator, a wheel thereon meshing with said rack and means to periodically reversely rotate said second wheel before said first rack is returned to zero position, and a recording stylus carried by said second rack.

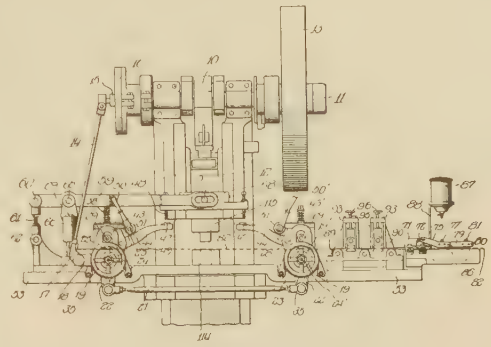
1,421,353. AUTOMOBILE LOCK. ANSON FEDORE LEWIS, Santa Barbara, Calif. Filed May 25, 1921. Serial No. 472,522. 1 Claim. (Cl. 70—126.)



An automobile lock comprising a bar member having an offset hook at one end for connecting it to the brake or clutch levers, a plurality of holes in the bar, a pin member having an offset on one end and an eye on the other for engaging with the bar to connect the gear change lever or some other member thereto, and a lock for locking the pin member to the bar member.

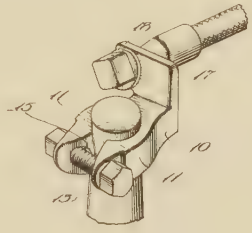
1,421,354. STOCK-HANDLING MECHANISM. FREDERICK J. LITTELL, Chicago, Ill., assignor to F. J. Littell Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 8, 1921. Serial No. 459,740. 14 Claims. (Cl. 153—54.)

1. In combination with strip stock working apparatus, intermittent stock feeding means controlled by the apparatus, means adapted to straighten the stock, the feeding means serving to pass the stock through the straightening means, means adapted to release the grip of the



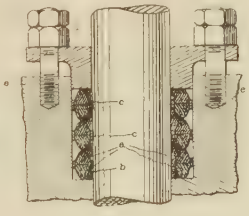
feeding means upon the stock between feeding movements, and means adapted to cut the stock scrap after the work of the apparatus upon the stock.

1,421,355. CONNECTOR FOR STORAGE BATTERIES. HERBERT E. WALKER, Chicago, Ill. Filed Oct. 27, 1920. Serial No. 419,950. 2 Claims. (Cl. 173—259.)



1. An electric connector for the purpose set forth comprising a body provided at one end with clamping jaws adapted to be clamped over a battery post, clamping means cooperating with said jaws, and a flange at the other end of the connector body, said flange being laterally offset relatively to said jaws and apertured to receive means to electrically and mechanically connect a conductor terminal thereto.

1,421,356. PACKING FOR GLANDS, STUFFING BOXES, AND THE LIKE. FREDERICK GEORGE DENTON and MATTHEW ANGUS, Low Fell, Gateshead, England. Filed Feb. 27, 1922. Serial No. 539,635. 5 Claims. (Cl. 288—1.)

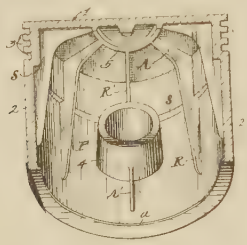


2. A packing ring, comprising a compressible cylindrical casing, a filling located within the interior of the casing, and oppositely disposed inward extending projections on opposite end portions of the casing for the retention of the filling.

4. A packing for the purpose set forth, comprising a hollow body separated by a partition to provide separated chambers, a filling for said chambers, and opposite bearing surfaces for the chambers.

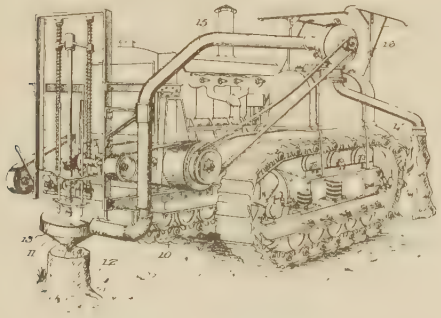
REISSUES.

15,393. ARTICLE OF MANUFACTURE. EDWARD W. CLARK, deceased, late of Los Angeles, Calif., by Security Trust & Savings Bank, executor, Los Angeles, Calif., a Corporation of California; said Clark assignor of one-fourth to Stanley S. Turner, one-fourth to Susie M. Clark, and one-fourth to Violet E. Turner, all of Los Angeles, Calif. Filed Dec. 16, 1921. Serial No. 522,917. Original No. 1,358,364, dated Nov. 9, 1920, Serial No. 316,262, filed Aug. 5, 1919. 3 Claims. (Cl. 74—108.)



3. A piston embodying a cast iron structure having a cylindrical skirt with oppositely formed wrist pin bosses intermediate the ends thereof, the portion of said skirt above said bosses being of substantially greater thickness than the portion therebelow, a head forming a closure for one end of said skirt of substantially uniform thickness with the lower portion of said skirt, a plurality of ribs formed on said head and skirt and spaced on said skirt at distances less than the radius of said skirt, said ribs having upper portions integral with said head and gradually increasing in area outwardly and downwardly extending lower portions longitudinally disposed on said skirt and gradually decreasing in area downwardly, for uniformly bracing said head and said skirt, certain of said ribs being alined with and intersecting said bosses, the upper portions of said ribs terminating short of the center of the head, as described.

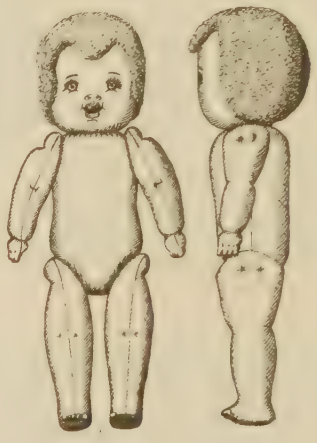
15,394. METHOD OF HARVESTING STUMPS. EDWIN A. MCKOY and GEORGE D. MOORE, New Orleans, La. Filed May 20, 1921. Serial No. 471,257. Original application filed Sept. 21, 1917, Serial No. 192,567. Renewed July 9, 1919, Serial No. 309,767. Original No. 1,313,709, dated Aug. 19, 1919. 10 Claims. (Cl. 144—2.)



1. The process of harvesting stumps which comprises, providing a hollow conical cutter head having knives arranged to deliver inwardly into the hollow of the head and of a diameter approximately as large at least as the diameter to be harvested and applying said head to the upper end of a stump and forcing it downwardly therein while rotating the head.

DESIGNS.

61,130. DOLL. GLEE BEUG, Sturgis, S. Dak. Filed Feb. 27, 1922. Serial No. 905. Term of patent 14 years.

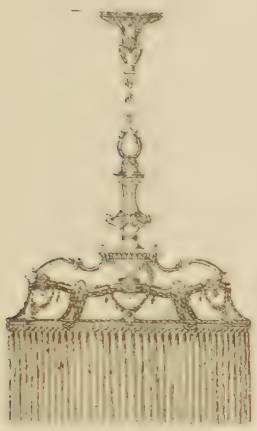


The ornamental design for a doll as shown.

61,131. BOTTLE. JOHN H. CARMICHAEL, Roanoke, Va. Filed Mar. 11, 1921. Serial No. 451,590. Term of patent 3½ years.

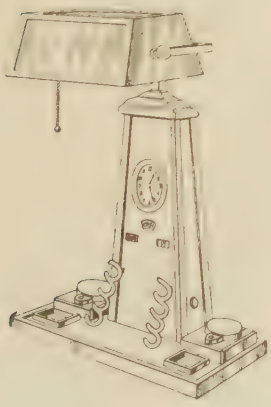
The ornamental design for a bottle, as shown.

61,132. CHANDELIER. THURE E. DAHL, New York, N. Y. Filed May 31, 1921. Serial No. 473,921. Term of patent 7 years.



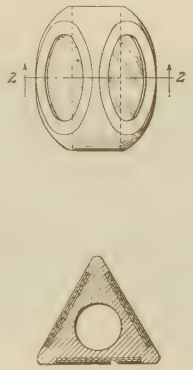
The ornamental design for a chandelier, as shown.

61,133. DESK LAMP. SIGMUND DULCZEWSKI, Buffalo, N. Y., assignor to Burglar Alarm & Metalic Manufacturing Corporation, Buffalo, N. Y., a Corporation of New York. Filed Aug. 19, 1921. Serial No. 493,758. Term of patent 3½ years.



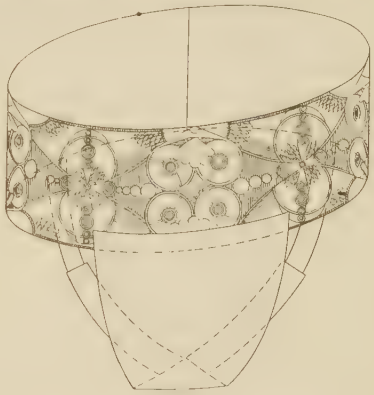
The ornamental design for a desk lamp, as shown.

61,134. BEAD FOR ORNAMENTAL NECK CHAINS. LAWRENCE GIANERA, Los Angeles, Calif. Filed Jan. 12, 1922. Serial No. 183. Term of patent 3½ years.



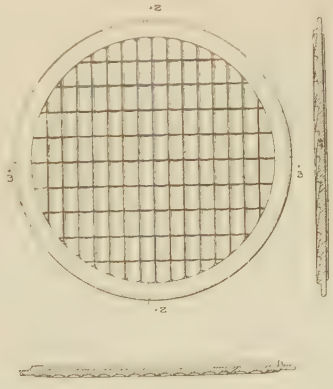
The ornamental design for a bead for ornamental neck chains, as shown.

61,135. ABDOMINAL PROTECTOR FOR BOXERS. MORRIS GOLOMB, New York, N. Y. Filed Mar. 24, 1921. Serial No. 455,165. Term of patent 14 years.



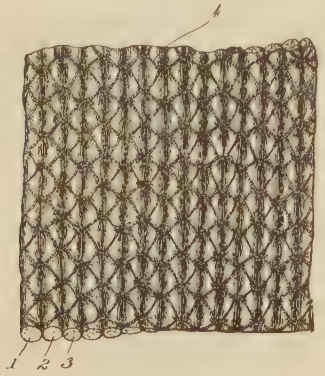
The ornamental design for an abdominal protector for boxers, as shown..

61,136. AUTOMOBILE HEADLIGHT LENS. REUBEN HALEY, Beaver, Pa. Filed Mar. 13, 1918. Serial No. 222,249. Term of patent 7 years.



The ornamental design for an automobile headlight lens, substantially as shown.

61,137. PADDING. JAMES P. HOOPER, Ruxton, Md. Filed Jan. 18, 1922. Serial No. 253. Term of patent 14 years.

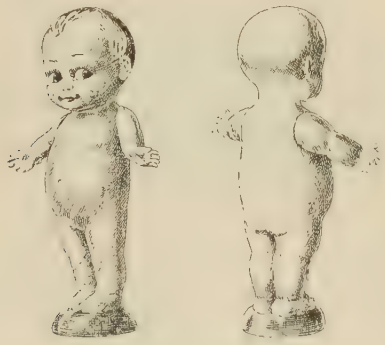


The ornamental design for padding substantially as shown and described.

61,138. STATUETTE. SILVIO JOBIN, Montreal, Quebec, Canada. Filed Apr. 21, 1921. Serial No. 463,407. Term of patent 3½ years.

The ornamental design for a statuette, as shown.

61,139. STATUE DOLL. JOSEPH G. KAEMPFER, New York, N. Y. Filed Feb. 7, 1920. Serial No. 357,106. Term of patent 3½ years.



The ornamental design for a statue doll, substantially as shown.

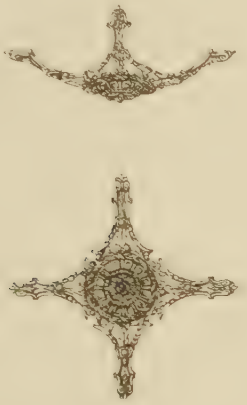
61,140. INCENSE BURNER. JAMES McF. LUCAS, Philadelphia, Pa. Filed Jan. 27, 1922. Serial No. 387. Term of patent 3½ years.

The ornamental design for an incense burner, as shown.

61,141. LIGHTING FIXTURE. FREDERICK K. MAERZ, Cleveland, Ohio, assignor to The Morreau Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 11, 1921. Serial No. 491,580. Term of patent 3½ years.

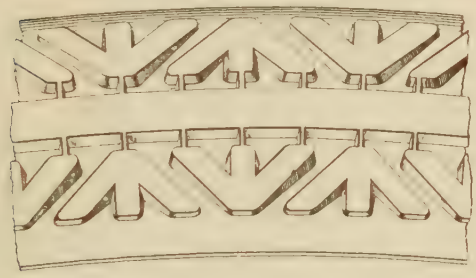
The ornamental design for a lighting fixture, as shown.

61,142. FRAME FOR LIGHTING FIXTURES. FREDERICK K. MAERZ, Cleveland, Ohio, assignor to The Morreau Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 11, 1921. Serial No. 491,581. Term of patent 3½ years.



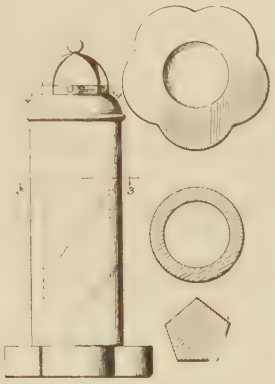
The ornamental design for a frame for lighting fixtures, as shown.

61,143. PNEUMATIC-TIRE TREAD. JOHN J. MORIARTY, Springfield, Ohio, assignor to The Victor Rubber Company, Springfield, Ohio, a Corporation of Ohio. Filed Sept. 12, 1921. Serial No. 500,232. Term of patent 14 years.



The ornamental design for a pneumatic tire tread, as shown.

61,144. MONUMENT. HIRAM PLATT, Como, Mont. Filed June 7, 1920. Serial No. 387,516. Term of patent 14 years.



The ornamental design for a monument as shown.

61,145. SMOKING DOLL. MABEL H. SLATER, New York, N. Y. Filed Nov. 3, 1921. Serial No. 512,659. Term of patent 14 years.

The ornamental design for a smoking doll as shown.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 27, 1922.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

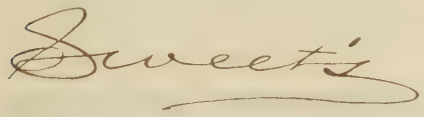
Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 117,661. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE GRATON & KNIGHT MANUFACTURING COMPANY, Worcester, Mass. Filed Apr. 21, 1919.

Particular description of goods.—Leather Belting.
Claims use since 1902.

Ser. No. 123,779. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SWEET CANDY CO., Salt Lake City, Utah. Filed Oct. 14, 1919.



The name "Sweets" being a facsimile handwriting of Mr. Arthur Sweet, vice president of applicant company.
Particular description of goods.—Candy.
Claims use since 1910.

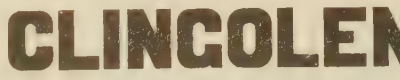
Ser. No. 126,171. (CLASS 12. CONSTRUCTION MATERIALS.) THE CLEVELAND BUILDERS SUPPLY & BRICK COMPANY, Cleveland, Ohio. Filed Dec. 17, 1919.

Particular description of goods.—Prepared Mixture of Which the Chief Ingredients are Sand, Cement, and Hydrated Lime for Use in Making Mortar for Laying Up All Kinds of Masonry.
Claims use since about Sept. 18, 1919.

Ser. No. 128,282. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) SIMPLEX AUTOMOBILE COMPANY, INC., Long Island City, N. Y. Filed Feb. 11, 1920.

Particular description of goods.—Automobiles.
Claims use since at least as early as October, 1903.

Ser. No. 128,545. (CLASS 15. OILS AND GREASES.) CRESCENT OIL COMPANY, Indianapolis, Ind. Filed Feb. 18, 1920.



Particular description of goods.—Lubricating Oils.
Claims use since Aug. 28, 1919.

Ser. No. 129,132. (CLASS 12. CONSTRUCTION MATERIALS.) THE GOHEEN CORPORATION, Wilmington, Del., and Warren, Ohio. Filed Mar. 2, 1920.

Particular description of goods.—Waterproofing Compound for Concrete, Plaster, and Stucco.
Claims use since 1900.

Ser. No. 129,134. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE GOHEEN CORPORATION, Wilmington, Del., and Warren, Ohio. Filed Mar. 2, 1920. Under ten-year proviso.

Particular description of goods.—Paint for Steel and Iron, Wood, Concrete, Cement, Tile, and Plaster.
Claims use since 1894.

Ser. No. 129,135. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE GOHEEN CORPORATION, Wilmington, Del., and Warren, Ohio. Filed Mar. 2, 1920.

Particular description of goods.—Paints for Foundation and Finishing Coats.
Claims use since 1914.

Ser. No. 129,447. (CLASS 39. CLOTHING.) CLIFT AND GOODRICH INC., New York, N. Y. Filed Mar. 9, 1920.

FITZ-U

"Fitz-U" trade-mark.
Particular description of goods.—Women's Knit Underwear in One and Two Piece Garments.
Claims use since Feb. 14, 1920.

Ser. No. 130,493. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) RACINE RUBBER COMPANY, Racine, Wis. Filed Apr. 1, 1920.

KLINGER

Particular description of goods.—Rubber or Rubber and Fabric Tires and Tubes for Vehicles.
Claims use since Nov. 1, 1919.

Ser. No. 130,682. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) MELODIA PHONOGRAPH CO., Chicago, Ill. Filed Apr. 5, 1920.

MELODIA

The mark is lined to represent the letters in gold.
Particular description of goods.—Phonographs Exclusive of Phonographic Records.
Claims use since July 5, 1919.

Ser. No. 131,205. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) F. W. BERWICK & CO., LTD., London, England. Filed Apr. 16, 1920.

No claim is made to the words "Sizaire Berwick" apart from the mark as shown on drawing.
Particular description of goods.—Automobiles.
Claims use since January, 1914.

Ser. No. 131,660. (CLASS 39. CLOTHING.) THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn. Filed Apr. 26, 1920.

IRON MAN

Particular description of goods.—Suspenders.
Claims use since June 1, 1900.

Ser. No. 132,272. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIMONSON, ROGERS & JAEGER, New York, N. Y. Filed May 10, 1920.

No claim is made to the word "Fabrics" apart from mark shown in drawing.
Particular description of goods.—Linings in the Piece of Silk, Wool, and Cotton—Namely, Alpacas and Serges, and of Cotton—Namely, Venetians; Pocketing in the Piece of Cotton.
Claims use since July 1, 1919.

Ser. No. 133,865. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ANNE VERONIQUE GOWEN-LECESNE, Paris, France. Filed June 18, 1920.

CORINDITE

Particular description of goods.—Basic Materials Having Bauxite Foundation Used in the Manufacture of Refractory Bricks and Emery Wheels, but Not Emery Wheels Themselves.

Claims use since Feb. 7, 1912.

Ser. No. 136,118. (CLASS 12. CONSTRUCTION MATERIALS.) THE FLINTKOTE COMPANY, Boston, Mass. Filed Aug. 14, 1920.

No claim is made for the words "New York, Chicago, Boston, Mass., New Orleans" or the abbreviation "Inc." apart from the mark shown.

Particular description of goods.—Roofing Material and Flooring Material Comprising Fibrous Sheet Material Saturated with Compounds.

Claims use since on or about June 14, 1920.

Ser. No. 136,263. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) HADFIELDS LIMITED, Sheffield, England. Filed Aug. 19, 1920.

GALAHAD

Particular description of goods.—Certain Named Instruments and Appliances Used and Prescribed by Dentists and Surgeons.

Claims use since Feb. 22, 1922.

Ser. No. 136,654. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) SHERIDAN MOTOR CAR COMPANY, Muncie, Ind. Filed Aug. 30, 1920.

Triangular portion of mark is blue in color, the letter "S" upon triangular portion is white, the letters forming word "Sheridan" being red, the remaining portion of trade-mark is of a metallic color corresponding with that of the metal from which the plate upon which the trade-mark appears is made.

Particular description of goods.—Automobiles.

Claims use since Apr. 15, 1920.

Ser. No. 137,369. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GIUSEPPE FERRERA, Corona, N. Y. Filed Sept. 20, 1920.

No claim being made to the words "Rheumatic Remedy."

Particular description of goods.—Liniment for the Treatment of Rheumatism.

Claims use since Feb. 2, 1920.

Ser. No. 137,461. (CLASS 5. ADHESIVES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Sept. 22, 1920. Under ten-year proviso.

GOODRICH

Particular description of goods.—Liquid Wood-Rim Cement, Vulcanizing Cement, Rubber Cement, Repair Gum, and Repair Outfits.
Claims use since 1890.

Ser. No. 137,472. (CLASS 5. ADHESIVES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Sept. 22, 1920.

Diamond

Particular description of goods.—Adhesive Tire-Repair Materials—viz, Vulcanized Pure-Gum Sheet Cementless Patch Having a Sticky Rubber Surfacing, Laminated Rubber Patch, and Rubberized Patching Fabric.
Claims use since about 1898.

Ser. No. 138,346. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETE DES PLAQUES ET POUDRES À SOUDER J. LAFFITTE, Paris, France. Filed Oct. 15, 1920.

No claim is made to exclusive use of words "Ma Qualité Fait Ma Force" and "Marqui Dèposee."
Particular description of goods.—Welding Plates, Welding Powders, and Brazing and Tempering Powders.
Claims use since 1919.

Ser. No. 139,147. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) CORONA CORD TIRE COMPANY, East Butler, Pa. Filed Nov. 4, 1920.

TRANSPORT

Particular description of goods.—Automobile Tire Casings and Tire Tubes Composed of Rubber.
Claims use since Aug. 31, 1920.

Ser. No. 139,363. (CLASS 39. CLOTHING.) MITCHELL BROTHERS COMPANY, Chicago, Ill. Filed Nov. 8, 1920.

The Business Woman

FROCK

No claim is made to the word "Frock" apart from mark shown in drawing.
Particular description of goods.—Ladies' Dresses, Suits, and Cloaks.
Claims use since July 1, 1920.

Ser. No. 141,330. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MICHAEL B. SCANLON, doing business as Erie Flour Company, Buffalo, N. Y. Filed Dec. 20, 1920.

No claim made to exclusive right to the use of word "Loaf" or representation of a loaf of bread apart from mark shown on drawing.
Particular description of goods.—Flour.
Claims use since Mar. 11, 1920.

Ser. No. 142,719. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAVID QUATEMAN, Chicago, Ill. Filed Jan. 24, 1921.

No claim is made to the exclusive use of the word "Brand" apart from mark shown in drawing.
Particular description of goods.—Powdered Boric Acid, Boric-Acid Crystals, Benzoic Acid, Citric Acid, Oxalic

and Cases and Parts Therefor, Combination Drawing Tables and Cabinets, Paper-Weight Attachments for Drawers, Drawing Tables and Parts for Same, Artists' Tables and Desks, and Plan Safes, and Typewriter Tables and Office Desks.

Claims use since Jan. 1, 1920.

Ser. No. 146,282. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) WESER BROS. INC., New York, N. Y. Filed Apr. 16, 1921.

Particular description of goods.—Pianos, Player Pianos, and Phonographs.

Claims use since Feb. 18, 1921.

Ser. No. 146,439. (CLASS 12. CONSTRUCTION MATERIALS.) INDEPENDENT GRAVEL COMPANY, Joplin, Mo. Filed Apr. 20, 1921.

MARBLETONE

Particular description of goods. Stucco.

Claims use since Mar. 1, 1921.

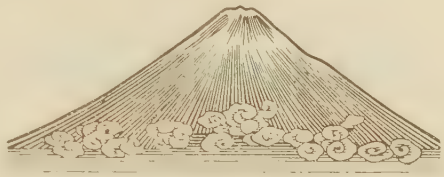
Ser. No. 146,504. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHREIBER PRODUCTS CORPORATION, Buffalo, N. Y. Filed Apr. 21, 1921.

KLOSTER

Particular description of goods.—Malt-Extract Sirup for Food Purposes.

Claims use since Apr. 1, 1921.

Ser. No. 147,236. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) T. FUJISAWA & COMPANY, New York, N. Y. Filed May 5, 1921.



Particular description of goods.—Chemicals and Pharmaceuticals—Namely, Camphor, Refined, Slabs, 2½ lbs., Tablets, All Sizes, Powdered; Menthol, Crystals; Arsenic, Powdered 99%; Mercury Bichloride, Potassium Bicarbonate, Potassium Carbonate, Potassium Permanganate, Naphthalene, Flakes, Balls, Powdered; Iodine, U. S. P.; Iodides, U. S. P.; Santonine, U. S. P.; Dextrine, White, Yellow; Insect Flowers, Insect Powder, Insect-Flower Stems, Camomile Flowers, Saffron, Valerian Root, Scopolia Root, Gall Nuts, Henbane Leaves, Cassia Bark, Agar-Agar, Japan Wax, Beeswax, Peppermint Oil.

Claims use since 1890.

Ser. No. 147,949. (CLASS 33. GLASSWARE.) THATCHER MANUFACTURING CO., Elmira, N. Y. Filed May 19, 1921.

UNIVERSAL

Particular description of goods.—Glass Milk Bottles.

Claims use since Apr. 1, 1921.

Ser. No. 148,202. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CLIFTON MFG. COMPANY, Waco, Tex. Filed May 25, 1921.

LEADER

Particular description of goods.—Tents, Awnings, Paulins, Tarpaulins, and Detached Waterproof Wagon Covers.

Claims use since 1910.

Ser. No. 148,843. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GEORGE A. LORD, Gasport, N. Y. Filed June 8, 1921.

MIRACLE POLISHING OIL

The words "Polishing Oil" are disclaimed apart from the mark shown.

Particular description of goods.—Polish for Automobiles, Pianos, Talking Machines, Furniture, and Hardwood Floors.

Claims use since Apr. 4, 1918.

Ser. No. 149,220. (CLASS 17. TOBACCO PRODUCTS.) THE FAIR, Chicago, Ill. Filed June 16, 1921.

Majestic

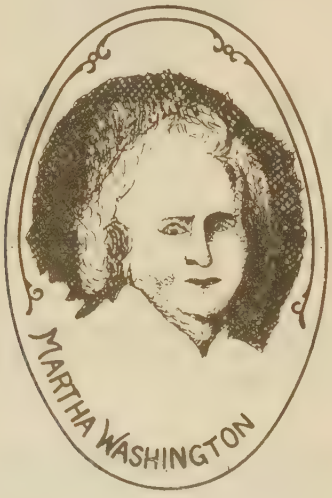
Particular description of goods.—Cigars.
Claims use since on or about Dec. 1, 1913.

Ser. No. 149,280. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) KEEP KLEAN KOVER CO., St. Louis, Mo. Filed June 17, 1921.

K K K

Particular description of goods.—Automobile Seat Covers Made of Straw or Grass Matting and Bound with Fabric.
Claims use since about June 13, 1921.

Ser. No. 149,362. (CLASS 43. THREAD AND YARN.) JOHN LE ROY SCHWEYER, Norristown, Pa. Filed June 18, 1921.



Particular description of goods.—Pure-Silk Threads or Yarns, Artificial-Silk Threads or Yarns, and Threads or Yarns Made from a Combination of Pure and Artificial Silk.
Claims use since July 5, 1917.

Ser. No. 149,427. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CONRAD T. SMITH, New York, N. Y. Filed June 20, 1921.

No claim to the word "Brand" apart from mark shown in drawing.
Particular description of goods.—Millinery Lacquer.
Claims use since Jan. 1, 1914.

Ser. No. 149,428. (CLASS 5. ADHESIVES.) CONRAD T. SMITH, New York, N. Y. Filed June 20, 1921.

Applicant disclaims use of the word "Brand" apart from the mark as shown in the drawings.
Particular description of goods.—Millinery Glue.
Claims use since Jan. 1, 1914.

Ser. No. 149,435. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WEST INDIES LIMES COMPANY, Kansas City, Mo. Filed June 20, 1921.

Kris-P-Nut

The word "Nut" is disclaimed apart from the other features of the mark.
Particular description of goods.—Nut Candy.
Claims use since May 19, 1921.

Ser. No. 149,557. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) H. L. BULLINGER, doing business as The Piano Exchange, Los Angeles, Calif. Filed June 23, 1921.

Aeona Phone

Particular description of goods.—Phonographs.
Claims use since on or about June 17, 1919.

Ser. No. 150,538. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) JEWEL PHONOPARTS COMPANY, Chicago, Ill. Filed July 18, 1921.

NOM-Y-KA

Particular description of goods.—Diaphragms for Phonograph Reproducers.
Claims use since on or about June 3, 1921.

Ser. No. 150,682. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HERENDEEN MILLING COMPANY, Chicago, Ill. Filed July 20, 1921.

SNO-WHITE

Particular description of goods.—Bread.
Claims use since May 14, 1921.

Ser. No. 150,814. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) ANTON F. KASNICK, doing business as Classo Album Company, Elmhurst, Ill. Filed July 22, 1921.

No claim being made to the exclusive use of the words "Album" and "Record."
Particular description of goods.—Phonograph-Record Albums.
Claims use since June 1, 1921.

Ser. No. 151,917. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) JUSTA MANUFACTURING COMPANY, Oklahoma, Okla. Filed Aug. 18, 1921.

The words "Tire Patch" and the representation of a portion of a tire are hereby disclaimed apart from mark shown.
Particular description of goods.—Rubber Patches for Tires and All Rubber Articles.
Claims use since Apr. 1, 1921.

Ser. No. 152,142. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) RAYNOR F. STARR, Chicago, Ill. Filed Aug. 24, 1921.

NU WASH

Particular description of goods.—Washboards.
Claims use since June 21, 1920.

Ser. No. 152,151. (CLASS 39. CLOTHING.) WENTWORTH CLOTHING COMPANY, Spokane, Wash. Filed Aug. 24, 1921. Under ten-year proviso.

Wentworth's

Particular description of goods.—Clothing — Namely, Men's, Young Men's, and Boys' Suits, Trousers, Coats, Overcoats, Negligee Shirts, Dress Shirts, Work Shirts, Knitted and Textile Underwear, and Hose.
Claims use since May 1, 1888.

Ser. No. 152,868. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) B/G SANDWICH SHOPS, Kansas City, Mo. Filed Sept. 12, 1921.

Particular description of goods.—Sandwiches and Pastry.
Claims use since July 26, 1921.

Ser. No. 153,407. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) HENRY PETERMAN, Brooklyn, N. Y. Filed Sept. 27, 1921.

No claim is made to words "Supplies," "Paints," "Colors," and "Oils" used in the preparation and manufacture of paints.

Particular description of goods.—Ready-Mixed Paints, Oils, and Varnishes.

Claims use since about June, 1, 1920.

Ser. No. 153,681. (CLASS 39. CLOTHING.) J. A. MIGEL INC., New York, N. Y. Filed Oct. 3, 1921.

Particular description of goods.—Men's and Boys' Dress Shirts, Collars, Neckties, Nightshirts, Dressing Gowns, Silk Sport Shirts, Waists, Blouses, and Underwear Made of Textile Fabrics.

Claims use since July 22, 1921.

Ser. No. 153,762. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) BENJAMIN MOORE & CO., Jersey City, N. J., and Brooklyn, N. Y. Filed Oct. 5, 1921.

TILE-LIKE

Particular description of goods.—Varnish Stain.

Claims use since December, 1908.

Ser. No. 154,005. (CLASS 15. OILS AND GREASES.) FRANK L. WILSON, doing business as F. L. Wilson Oil & Chemical Co., Barry, Ill. Filed Oct. 11, 1921.

No claim is made for the word "Oil" apart from the mark as shown.

Particular description of goods.—Lubricating Oils.

Claims use since July 1, 1921.

Ser. No. 154,079. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IDA DIANA EKBERGH, doing business as Swedish Pan-Cakery, Minneapolis, Minn. Filed Oct. 14, 1921.

PAN-CAKERY

Trade-mark, "Pan-Cakery."

Particular description of goods.—Pancake Flour.

Claims use since Sept. 1, 1921.

Ser. No. 154,246. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HERBERT C. VAN BUSKIRK, doing business as The Van Co., Saugerties, N. Y. Filed Oct. 17, 1921.

T-A-K-A-L-A-X

Particular description of goods.—Laxative.

Claims use since June 5, 1919.

Ser. No. 154,247. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HERBERT C. VAN BUSKIRK, doing business as The Van Co., Saugerties, N. Y. Filed Oct. 17, 1921.

DYS-PEP-TYX

Particular description of goods.—Indigestion Tablets.

Claims use since June 5, 1919.

Ser. No. 154,308. (CLASS 39. CLOTHING.) GUTHRIE & CO., LIMITED, Singapore, Straits Settlements, and London, England. Filed Oct. 19, 1921.

Issued only by Guthrie & Co Limited

Applicant disclaims any attempt to cover in this registration the geographical word "Singapore" apart from the mark shown.

Particular description of goods.—Coats, Suits, Underwear of Knitted or Textile Fabric, Hosiery, Neckties, Dress Shirts, Negligee Shirts, Work Shirts, Undershirts, Nightgowns, and Pyjamas, All of the Foregoing Articles Comprising Apparel for Men, Women, and Children.

Claims use since Feb. 11, 1920.

Ser. No. 154,390. (CLASS 39. CLOTHING.) LOUISE S. TOBIN, Kansas City, Mo. Filed Oct. 20, 1921.

BLOOMERALL

Particular description of goods.—Overalls, Jumpers, Union Underwear, and Combination Suits.
Claims use since Sept. 15, 1921.

Ser. No. 154,519. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARTHUR E. KERLIN, Center Hall, Pa. Filed Oct. 24, 1921.

No claim is made to exclusive use of word "Quality" apart from mark shown.
Particular description of goods.—Laying Mash, Starting Food, Growing Food, Hatching Eggs, and Baby Chickens.
Claims use since Aug. 1, 1921.

Ser. No. 154,535. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEPH STERN & SONS, INC., New York, N. Y. Filed Oct. 24, 1921.

FOREST HILL

Trade-mark consists of words "Forest Hill."
Particular description of goods.—Packaged Meat—Namely, Pork Sausage.
Claims use since Aug. 15, 1921.

Ser. No. 154,637. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE CON-DEN-RIT RADIANT LOG CORPORATION, Perth Amboy, N. J. Filed Oct. 27, 1921.

RADIANTLOG

No claim is made to the exclusive use of the words "Radiant" and "Log" except in its specific manner shown.
Particular description of goods.—Gas Logs and Gas Stoves.
Claims use since May 13, 1921.

Ser. No. 154,992. (CLASS 12. CONSTRUCTION MATERIALS.) RUTLAND FIRE CLAY CO., Rutland, Vt. Filed Nov. 3, 1921.

The shading in drawing is not intended to represent any particular color.
Particular description of goods.—Stove and Boiler Putty, Which is an Oil Putty Used for Mending Joints in Heating Apparatus, Such as Boilers, Stoves, Steam Pipes, and the Like.
Claims use since some time in 1901.

Ser. No. 155,043. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE J. BULUBASSIS, New York, N. Y. Filed Nov. 5, 1921.

Applicant disclaims the descriptive "Brand" as a part of the mark shown in drawing.
Particular description of goods.—Olive Oil.
Claims use since Oct. 27, 1921.

Ser. No. 155,230. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) LION VARNISH COMPANY, Glendale, N. Y. Filed Nov. 9, 1921.

No claim is made to words "Glass Enamel, Cooper Ave. & Proctor St., Glendale, New York City," apart from mark shown on drawing.

Particular description of goods.—Ready-Mixed Paints and Varnishes, Also Floor Filler.

Claims use since July 2, 1921.

Ser. No. 155,273. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PY-RE-GON COMPANY, Chicago, Ill. Filed Nov. 10, 1921.

No claim is made to the words "For the Treatment and Prevention of Pyorrhea."

Particular description of goods.—Medicinal Compound Used for the Treatment of Pyorrhea.

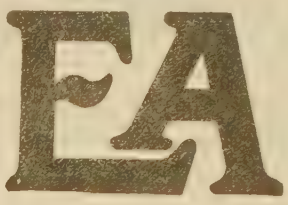
Claims use since Sept. 15, 1921.

Ser. No. 155,312. (CLASS 39. CLOTHING.) LIPMAN WOLFE & CO., Portland, Oreg. Filed Nov. 12, 1921.

Particular description of goods.—Men's and Boys' Suits, Overcoats, and Topcoats.

Claims use since about October, 1920.

Ser. No. 155,490. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) E. A. LABORATORIES, INC., Brooklyn, N. Y. Filed Nov. 17, 1921.



Particular description of goods.—Electrical Warning Signals—Namely, Lamps, Horns, and Stop Signals for Motor Vehicles.

Claims use since July 22, 1913.

Ser. No. 155,507. (CLASS 39. CLOTHING.) LORD & TAYLOR, New York, N. Y. Filed Nov. 17, 1921.

BIG JAMA

Particular description of goods.—Pyjamas.

Claims use since Nov. 1, 1920.

Ser. No. 155,537. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ANTON WINGEN, Jr., doing business as Anton Wingen, Jr., Solingen, Germany. Filed Nov. 17, 1921.

Particular description of goods.—Table Knives and Forks of Base Metal, Butchers' Knives, Kitchen Knives, Painters' Knives, Razors, Scissors, Daggers, Sabers, Plane Irons, Saws, Files, and Axes.

Claims use since July 13, 1875.

Ser. No. 155,798. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) STEPHEN D. BAKER, doing business as S. D. Baker Manufacturing Company, New York, N. Y. Filed Nov. 23, 1921.

SAMSONCHINA

No claim is made to exclusive use of word "China" apart from mark shown in drawing.

Particular description of goods.—Soap Holders, Tumbler Holders, Toothbrush Holders, Sponge Holders, Roll-Paper Holders, Sheet-Paper Holders, Grab Rails, Shelves, Towel Bars, Towel Hooks, Robe Hooks, Strop or Douche Hooks, Comb and Brush Holders, Combination Soap Holders, Combination Tumbler Holders, Combination Tum-

bler and Soap Holders, Combination Soap and Toothbrush Holders, Combination Tumbler and Toothbrush Holders, Combination Toothbrush and Tooth Paste Holders, Combination Cigar Rest and Match Holders, Combination Soap and Two Tumbler Holders; Combination Tumbler, Soap, and Toothbrush Holders; Combination Tumbler and Two Toothbrush Holders, Combination Toothbrush and Two Tumbler Holders, Combination Shelf and Tumbler Holders, Combination Shelf and Soap Holders; Combination Shelf, Soap, and Tumbler Holders; Combination Shelf and Towel Bar; Combination Shelf, Towel Bar, Soap, and Tumbler Holders.

Claims use since Feb. 1, 1921.

Ser. No. 155,837. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) SARGOY BROS., Brooklyn, N. Y. Filed Nov. 23, 1921.

WASHRITE

Particular description of goods.—Washboilers.
Claims use since Nov. 4, 1921.

Ser. No. 155,962. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) HENRY EARL HEIM, Portland, Oreg. Filed Nov. 26, 1921.

HEIM

Particular description of goods.—Plumbing and Steam-Fitting Supplies—Namely, Hot-Water Equalizers.
Claims use since Nov. 15, 1921.

Ser. No. 156,134. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE AMERICAN STEEL & WIRE COMPANY OF NEW JERSEY, trading as American Steel & Wire Company, Cleveland, Ohio. Filed Dec. 1, 1921.

Particular description of goods.—Cold-Drawn Steel Wire; Round, Oval, Flat, and Other Shapes; Plain Stranded and Ribbon Twisted; Uncoated; Galvanized, Varnished, Tinned, Coppered, Liquor Finished, and Otherwise Coated; Cold-Rolled Flats for Blanking, Stamping, Forming, and Other Varied Purposes; Cold Drawn and Rolled Round, Flat, and Other Shaped Steel Suitable for the Manufacture of Springs of All Grades from Common Upholstery to Highest Music and Tempered Classes; Flat, Round, and Other Shaped Steel Hoops for Close and Loose Cooperage, Such as Casks, Barrels, Tubs, and Similar Receptacles; Aeroplane Bracing and Trussing Wires, Hot-Rolled Rods of Various Shapes for Cold Drawing and Rolling, and Cold Drawn and Rolled Screw Stock.

Claims use since Oct. 1, 1899.

Ser. No. 156,195. (CLASS 39. CLOTHING.) MARIO FLORENTINO TURILLI, trading as Modern Neckwear Company, Providence, R. I. Filed Dec. 2, 1921.

The picture of man is fanciful, and representation of necktie is disclaimed except in connection with trade-mark.

Particular description of goods.—Necktie.
Claims use since Sept. 2, 1921.

Ser. No. 156,332. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MERCHANTS COFFEE CO. OF NEW ORLEANS LTD., New Orleans, La. Filed Dec. 6, 1921.

Particular description of goods.—Coffee.
Claims use since Nov. 21, 1921.

Ser. No. 156,343. (CLASS 39. CLOTHING.) WM. SCOTT, Jr., Norristown, Pa. Filed Dec. 6, 1921.

No claim made to expression "High Heel."
Particular description of goods.—Hosiery.
Claims use since about Nov. 11, 1920.

Ser. No. 156,425. (CLASS 39. CLOTHING.) MICHAEL H. WEGMAN, New York, N. Y. Filed Dec. 7, 1921.

No claim made to exclusive use of word "Clothes" apart from mark shown.
Particular description of goods.—Suits, Coats, Overcoats, Vests, and Trousers.
Claims use since July, 1920.

Ser. No. 156,572. (CLASS 39. CLOTHING.) FORMAN & LEVINSON, New York, N. Y. Filed Dec. 12, 1921.

Particular description of goods.—Hats and Caps for Men, Women, and Children.
Claims use since Nov. 19, 1921.

Ser. No. 156,585. (CLASS 39. CLOTHING.) CHARLES MILICH, New York, N. Y. Filed Dec. 12, 1921.

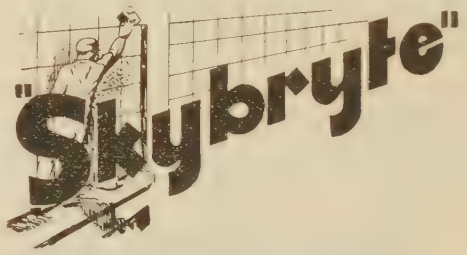
Particular description of goods.—Negligee and Work Shirts and Pyjamas.
Claims use since Aug. 31, 1921.

Ser. No. 156,677. (CLASS 11. INKS AND INKING MATERIALS.) CROCKER PEN COMPANY, Everett, Mass. Filed Dec. 14, 1921.

PERMA

Particular description of goods.—Writing Ink.
Claims use since Nov. 18, 1921.

Ser. No. 156,810. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE SKYBRYTE COMPANY, Cleveland, Ohio. Filed Dec. 16, 1921.



Particular description of goods.—Preparation Used for the Purpose of Cleaning and Removing Dirt, Grit, and Other Substances from Glass and Other Glazed Surfaces.
Claims use since December, 1918.

Ser. No. 156,848. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MUSER BROTHERS, New York, N. Y. Filed Dec. 17, 1921.

A-One-Chiffon

The word "Chiffon" is disclaimed apart from the mark shown on drawing.
Particular description of goods.—Silk Piece Goods.
Claims use since Aug. 15, 1921.

Ser. No. 156,877. (CLASS 31. FILTERS AND REFRIGERATORS.) EASTMAN A. BURROWS, Chicago, Ill. Filed Dec. 19, 1921.

ISEBOY

Particular description of goods.—Refrigerating Apparatus, Artificial-Ice Machinery, Including Complete Refrigerating Highside, (This Means a Compressor, a Condenser, an Oil Trap, Miscellaneous Piping, Etc., All Arranged and Mounted as a Complete Unit on One Base).
Claims use since Jan. 2, 1921.

Ser. No. 156,893. (CLASS 39. CLOTHING.) THE FAIR, Chicago, Ill. Filed Dec. 19, 1921.

"Demitrino"

Particular description of goods.—Men's Hats.
Claims use since October, 1918.

Ser. No. 156,987. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Dec. 21, 1921.

SULTANE

Particular description of goods.—Knitted, Netted, and Textile Fabrics.
Claims use since on or about June 15, 1921.

Ser. No. 157,012. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BLANKE-BAER EXTRACT & PRESERVING COMPANY, St. Louis, Mo. Filed Dec. 21, 1921.

Win-you

Particular description of goods.—Jellies, Fruit Preserves, Apple Butter, and Flavoring Extracts.
Claims use since Aug. 1, 1918.

Ser. No. 157,081. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SOLOMON SHARLIN, Trenton, N. J. Filed Dec. 23, 1921.

No claim is made to the representation of a lantern apart from the mark shown.
Particular description of goods.—Electric-Lighting Fixtures and Parts.
Claims use since Sept. 1, 1921.

Ser. No. 157,096. (CLASS 12. CONSTRUCTION MATERIALS.) HARBISON-WALKER REFRACTORIES COMPANY, Pittsburgh, Pa. Filed Dec. 24, 1921.

FIREBOND

Particular description of goods.—Refractory Cement.
Claims use since June 15, 1921.

Ser. No. 157,110. (CLASS 12. CONSTRUCTION MATERIALS.) SCOFIELD, EVANS AND COMPANY, Chicago, Ill. Filed Dec. 24, 1921.

REPELLO

Particular description of goods.—Liquid Waterproofing Compounds.
Claims use since October, 1915.

Ser. No. 157,139. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) EDGAR M. CHERRY, Eastport, Me. Filed Dec. 27, 1921.

CHERRYKOTE

Particular description of goods.—Dry, Ready-Mixed, and Paste Paints.
Claims use since 1910.

Ser. No. 157,178. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY (Incorporated in New Jersey), Bayonne, N. J. Filed Dec. 27, 1921.

GARÇA

Particular description of goods.—Certain Named Oils, Greases, and Waxes.
Claims use since Sept. 27, 1921.

Ser. No. 157,233. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PAGE & SHAW, INC., Boston and Cambridge, Mass. Filed Dec. 28, 1921.

Piccadilly Package

The word "Packages" is disclaimed apart from the other features of mark shown on drawing.
Particular description of goods.—Candy.
Claims use since Sept. 1, 1921.

Ser. No. 157,261. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) DREYER & BUTZ, Newark, N. J. Filed Dec. 29, 1921.

ARTISTO-GRAPH

Particular description of goods.—Apparatus for Copying Drawings and the Like, Comprising a Drawing Board Having a Tracing and Scribing Arm Mounted Thereon.
Claims use since Dec. 9, 1921.

Ser. No. 157,286. (CLASS 39. CLOTHING.) LYDIA B. THOMAS, Kennett Square, Pa. Filed Dec. 29, 1921.

T TOT GS

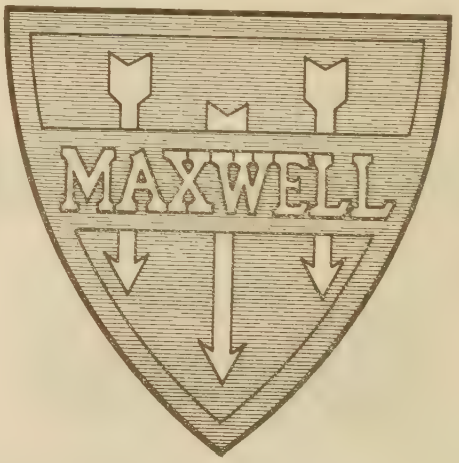
Particular description of goods.—Children's Suits
Claims use since Dec. 6, 1921.

Ser. No. 157,327. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) E. B. MEYROWITZ, INC., New York, N. Y. Filed Dec. 30, 1921.

E. B. Meyrowitz

The signature is handwriting of E. B. Meyrowitz.
Particular description of goods.—Eyeglasses.
Claims use since Jan. 1, 1890.

Ser. No. 157,435. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) MAXWELL MOTOR CORPORATION, Detroit, Mich. Filed Jan. 3, 1922.



Shading on drawing indicates blue color.
Particular description of goods.—Automobiles and Their Parts.
Claims use since Sept. 7, 1921.

Ser. No. 157,436. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WALTER E. MOULTON, doing business as Safety Products Company, Geneva, Ohio. Filed Jan. 3, 1921.

"AROWAY"

Particular description of goods.—Electric Signal Lights for Use on Vehicles.
Claims use since Aug. 1, 1921.

Ser. No. 157,452. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CHARLES G. SCHMIDT, Philadelphia, Pa. Filed Jan. 3, 1922.

AUSTRO
Auto Luster

Particular description of goods.—Polish for Automobiles, Pianos, Furniture, Safes, and Metal Cabinets and Also for Varnish or Shellac Finished Floors.
Claims use since Nov. 10, 1920.

Ser. No. 157,488. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE KOPPERS COMPANY, Pittsburgh, Pa. Filed Jan. 4, 1922.

KOPPERS
COKE

No claim is made to exclusive right to use word "Coke" except as used on drawing of trade-mark "Koppers Coke."
Particular description of goods.—Coke.
Claims use since Nov. 15, 1921.

Ser. No. 157,489. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE KOPPERS COMPANY, Pittsburgh, Pa. Filed Jan. 4, 1922.

KOPPERS
SEABOARD
COKE

Trade-mark "Koppers Seaboard Coke." No claim is made to exclusive use of the word "Coke" except as shown on drawing.
Particular description of goods.—Coke.
Claims use since Nov. 23, 1921.

Ser. No. 157,554. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CREMINT CO., New York, N. Y. Filed Jan. 6, 1922.

CREMINTS

The trade-mark is a modification of the trade-mark registered by us on Dec. 14, 1920, No. 137,978 which is still ours.
Particular description of goods.—Mint Candy and Mint Tablets.
Claims use since May 14, 1919.

Ser. No. 157,593. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE U. S. AUTOMOBILE INDICATOR CO., Bridgeport, Conn. Filed Jan. 6, 1922.

USICO

No claim is made to the representation of the face of the signal apart from mark shown on drawing.
Particular description of goods.—Electric Signal and Tail Lights for Use on Automobiles.
Claims use since 1920.

Ser. No. 157,660. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EMILIO DI BIANCO, New York, N. Y. Filed Jan. 9, 1922.

Particular description of goods.—Olive Oil.
Claims use since September, 1919.

Ser. No. 157,831. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. F. ERB & SON, Fort Thomas, Ky. Filed Jan. 12, 1922.

MickeySweets

Particular description of goods.—Candy.
Claims use since on or about Oct. 27, 1921.

Ser. No. 157,833. (CLASS 39. CLOTHING.) FULD AND HATCH KNITTING COMPANY, Albany, N. Y. Filed Jan. 12, 1922.

Particular description of goods.—Knitted Garments—Namely, Sweaters, Jackets, Skirts, and Knitted and Woven Underwear — Namely, Combination Garments, Union Suits, Undershirts, Drawers, Bloomers, and Hosiery.
Claims use since 1913.

Ser. No. 157,959. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE URBANE E. ROGERS COMPANY, Dallas, Tex. Filed Jan. 14, 1922.

BIGBOY

Particular description of goods.—Vegetable-Oil Soap.
Claims use since about Jan. 1, 1922.

Ser. No. 157,978. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) AMERICAN HEATER CORPORATION, St. Louis, Mo. Filed Jan. 16, 1922.

AMERICAN BEAUTY

Particular description of goods.—Gas Water Heaters.
Claims use since Oct. 5, 1921.

Ser. No. 157,994. (CLASS 12. CONSTRUCTION MATERIALS.) THE FLINTKOTE COMPANY, Boston, Mass. Filed Jan. 16, 1922.

K-B

Trade-mark consists of the symbol "K-B."
Particular description of goods.—Sheathing and Building Paper.
Claims use since on or about Mar. 26, 1921.

Ser. No. 158,001. (CLASS 39. CLOTHING.) LICHTENSTEIN-MITTENTHAL COMPANY, Dallas, Tex. Filed Jan. 16, 1922.

Lady Frances

Particular description of goods.—Ladies', Misses', and Children's Trimmed Hats.
Claims use since about Apr. 1, 1921.

Ser. No. 158,013. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) SOCIETE DES APPAREILS MÉCANIQUES D'HYGIÈNE BUCCALE, Paris, France. Filed Jan. 16, 1922.

"SHAMB"

Particular description of goods.—An Instrument for Massaging the Gums.
Claims use since about October, 1921.

Ser. No. 158,014. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE STEROLECTRIC COMPANY, Muncie, Ind. Filed Jan. 16, 1922.

TIMETER

Particular description of goods.—Time Controller for Electric Appliances.
Claims use since December, 1920.

Ser. No. 158,034. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) BERGE-RATHBUN CO., Boston, Mass. Filed Jan. 17, 1922.

TEL-U-LEVEL

Particular description of goods.—Liquid Indicating Gauges.
Claims use since Dec. 10, 1921.

Ser. No. 158,131. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE LAMSON BROTHERS CO., Toledo, Ohio. Filed Jan. 19, 1922.

NON-NETTLE

Particular description of goods.—Flannels in the Piece.
Claims use since about 1898.

Ser. No. 158,151. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) RELIANCE METAL SPINNING & STAMPING CO., INC., Brooklyn, N. Y. Filed Jan. 19, 1922.

HONRWARE

Particular description of goods.—Metal Ware and Metal Culinary Utensils—Namely, Percolators, Teapots, Crumb Trays, and Scrapers, Pie-Plate Frames, Casserole Frames, and Casseroles.
Claims use since Nov. 3, 1921.

Ser. No. 158,152. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM I. RUSSELL, Baltimore, Md. Filed Jan. 19, 1922.

MAL-ZEMA

Particular description of goods.—Medicinal Preparation for Eczema and Other Skin Diseases.
Claims use since Dec. 15, 1921.

Ser. No. 158,173. (CLASS 39. CLOTHING.) FRANK W. ABBOTT CORPORATION, New York, N. Y. Filed Jan. 20, 1922.

Hermine

Particular description of goods.—Ladies' Hats.
Claims use since Nov. 25, 1921.

Ser. No. 158,201. (CLASS 39. CLOTHING.) THOMAS TEXTILE COMPANY, New York, N. Y., assignor to Thomas J. Swartz. Filed Jan. 20, 1922.

Particular description of goods.—Babies' Diapers.
Claims use since about Aug. 8, 1921.

Ser. No. 158,220. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) BAUSCH & LOMB OPTICAL CO., Rochester, N. Y. Filed Jan. 21, 1922.

CELEX

Particular description of goods.—Ophthalmic Lenses.
Claims use since Oct. 19, 1921.

Ser. No. 158,236. (CLASS 5. ADHESIVES.) NATHAN S. HILL, Boston, Mass. Filed Jan. 21, 1922.

DOUBLE D D TRADE MARK. DIAMOND CEMENT

The words "Trade Mark" and "Cement" are hereby disclaimed apart from mark on drawing.
Particular description of goods.—Cement for Repairing Broken China, Glass, Wood, Leather, Ivory, and Other Substances.
Claims use since Jan. 1, 1890.

Ser. No. 158,243. (CLASS 27. HOROLOGICAL INSTRUMENTS.) JAMES MCCREERY & COMPANY, New York, N. Y. Filed Jan. 21, 1922.

La Gloire

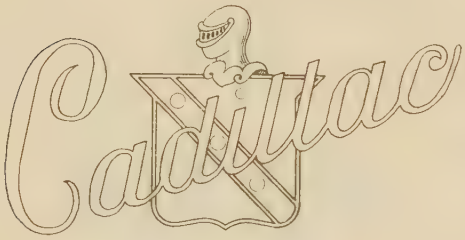
Particular description of goods.—Clocks.
Claims use since Jan. 16, 1922.

Ser. No. 158,281. (CLASS 39. CLOTHING.) AIVORY SOX CO., New York, N. Y. Filed Jan. 23, 1922.

Aivory

Particular description of goods.—Men's Cotton, Lisle, Fiber, and Silk Hosiery.
Claims use since August, 1921.

Ser. No. 158,298. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) CADILLAC WASHING MACHINE CO., Chicago, Ill. Filed Jan. 23, 1922.



Particular description of goods.—Electrically-Operated Textile-Fabric-Washing Machines.
Claims use since Feb. 1, 1921.

Ser. No. 158,326. (CLASS 39. CLOTHING.) THE NU BONE CORSET COMPANY, Corry, Pa. Filed Jan. 23, 1922.

NuKor Belt

No claim to the word "Belt" as a part of trade-mark.
Particular description of goods.—Corsets.
Claims use since January, 1922.

Ser. No. 158,327. (CLASS 39. CLOTHING.) THE NU BONE CORSET COMPANY, Corry, Pa. Filed Jan. 23, 1922.

Korsetaide

Particular description of goods.—Corsets.
Claims use since January, 1922.

Ser. No. 158,463. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE MADAM C. J. WALKER MANUFACTURING COMPANY, Indianapolis, Ind. Filed Jan. 25, 1922.

Particular description of goods.—Toilet Preparations, of Various Kinds of Toilet Soaps, Comprising Complexion Soaps and Antiseptic Soaps.
Claims use since June, 1919.

Ser. No. 158,465. (CLASS 12. CONSTRUCTION MATERIALS.) ANCHOR CORRUGATING CONSTRUCTION CO., New York, N. Y. Filed Jan. 26, 1922.

No claim is made to the word "Buildings" apart from mark shown.
Particular description of goods.—Buildings.
Claims use since 1917.

Ser. No. 158,470. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE C. B. DOLGE COMPANY, Westport, Conn. Filed Jan. 26, 1922.

Tink

Particular description of goods.—Product for Cleaning Out Waste, Drain, or Stopped-Up Pipes.
Claims use since about June 14, 1921.

Ser. No. 158,542. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STODDART BROS., INC., Buffalo, N. Y. Filed Jan. 27, 1922.

NORMA

Particular description of goods.—Medical Preparation for Reducing Blood Pressure.
Claims use since Jan. 1, 1918.

Ser. No. 158,607. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) GEORGE W. DE SMET, Chicago, Ill. Filed Jan. 30, 1922.

STYGIAN

Particular description of goods.—Carbon Black.
Claims use since Oct. 12, 1921.

Ser. No. 158,639. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANK ORR, doing business as the Orro Ointment, Tulsa, Okla. Filed Jan. 30, 1922.

ORRO

Particular description of goods.—Ointment for the Treatment of Sweaty and Fetid Feet and Arms.
Claims use since Dec. 3, 1921.

Ser. No. 158,679. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE HOFFMANN-LA ROCHE CHEMICAL WORKS, New York, N. Y. Filed Jan. 31, 1922.

ALLONAL

Particular description of goods.—Medicinal Preparation Recommended as a Nonnarcotic, Hypnotic, and Analgesic.
Claims use since Nov. 23, 1921.

Ser. No. 158,729. (CLASS 11. INKS AND INKING MATERIALS.) SIGMUND ULLMAN CO., New York, N. Y. Filed Feb. 1, 1922.

ESSYEW

Particular description of goods.—Printing Inks.
Claims use since December, 1919.

Ser. No. 158,759. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE DAYTON PUMP & MANUFACTURING COMPANY, Dayton, Ohio. Filed Feb. 2, 1922.

Rapidayton

Particular description of goods.—Electrical House Pumps, Electrical Water Systems, Electrical Gasoline Pumps, and Electrical Combined Pumps and Tanks.
Claims use since 1915.

Ser. No. 158,800. (CLASS 7. CORDAGE.) PLYMOUTH CORDAGE COMPANY, Plymouth, Mass. Filed Feb. 2, 1922.

BRONZO

Particular description of goods.—Hard Fiber Cordage, Including Cables, Ropes, and Twine.
Claims use since Jan. 20, 1922.

Ser. No. 158,864. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ETIENNE GOSSELIN, Biddeford, Me. Filed Feb. 4, 1922.

"GOLD SALVE"

No claim is made to the word "Salve" apart from mark shown in drawing.
Particular description of goods.—Salve for the Treatment of Sores, Burns, Boils, Eczema, and the Like.
Claims use since Dec. 15, 1921.

Ser. No. 158,886. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) PITTSBURGH REINFORCED BRAZING & MACHINE COMPANY, Pittsburgh, Pa. Filed Feb. 4, 1922.

KERO TEST

No claim is made to exclusive use of word "Test" apart from mark shown in drawing.

Particular description of goods.—Valves—Namely, Gate Valves, Globe Valves, and Pipe Fittings—Namely, Elbows, T's, Crosses, Y's, and Return Bends.

Claims use since about Apr. 15, 1921.

Ser. No. 158,916. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) GEORGE A. COATS, Indianapolis, Ind. Filed Feb. 6, 1922.

COATS

Particular description of goods.—Automobiles, Motor-Propelled Trucks, and Similar Motor-Propelled Vehicles.

Claims use since Jan. 1, 1922.

Ser. No. 158,948. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PYO-CODA LABORATORIES, New York, N. Y. Filed Feb. 6, 1922.

Pyo-Coda

The lining on drawing is shading and does not indicate color.

Particular description of goods.—Preparation for the Treatment of Pyorrhea.

Claims use since Jan. 5, 1922.

Ser. No. 158,991. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BERTHA LOGAR, New York, N. Y. Filed Feb. 7, 1922.

COFFELT'S NEVER FAILING

No claim is made to the words "Never Failing" apart from mark shown.

Particular description of goods.—Hair Restorer for Restoring Hair and Removing Dandruff.

Claims use since May 11, 1921.

Ser. No. 159,063. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) TRIANGLE MOTORS INCORPORATED, Chicago, Ill. Filed Feb. 8, 1922.

TRIANGLIZED CARS
(Remanufactured Automobiles)

The words "Cars" and "Remanufactured Automobiles" do not form a part of registration sought apart from mark shown.

Particular description of goods.—Remanufactured Automobiles.

Claims use since Nov. 5, 1921.

Ser. No. 159,065. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ULTRA REFINED CRUDE PRODUCTS CO., Chicago, Ill. Filed Feb. 8, 1922.

DEODORIZED Kerosene Ultra

The words "Deodorized Kerosene" do not form a part of registration apart from mark shown in drawing.

Particular description of goods.—Medicinal Preparation Used as an Antispasmodic, Diuretic, Anthelmintic, Expectorant, and Antiseptic to Prevent Intestinal Putrefaction, and as a Medicinal Preparation and Cleanser for Skin, Wounds, and Scalp, and as a Vehicle for Sprays and Local Applications, Antirheumatic, Antipruritic, Antiparasitic, Antiseptic, Astringent, Antipyrotic, and Sedative.

Claims use since June 1, 1920.

Ser. No. 159,066. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) WILLIAM WELSHAUSEN, Allenhurst, N. J. Filed Feb. 8, 1922.

No claim being made to exclusive use of words "Glare Defier" apart from mark shown.

Particular description of goods.—Shade for Eliminating Glare Upon Automobile Windshields.

Claims use since Apr. 1, 1921.

Ser. No. 159,089. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HEPPENSTALL FORGE AND KNIFE COMPANY, Pittsburgh, Pa. Filed Feb. 9, 1922.

BLASKOOL

Particular description of goods.—Steel for Use in the Manufacture of Die Blocks, Special Tool-Steel Forgings, Upsetter Dies, Punches, and Tools Used for Hot Work.

Claims use since Dec. 5, 1921.

Ser. No. 159,109. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) A. STERZELBACH & SONS CO., New York, N. Y. Filed Feb. 9, 1922.

NingshaN

Particular description of goods.—Woven, Knitted, Netted, and Textile Fabrics in the Piece, Comprised in Whole or in Part of Silk.

Claims use since Dec. 1, 1921.

Ser. No. 159,144. (CLASS 38. PRINTS AND PUBLICATIONS.) BRUCE V. CRANDALL, Chicago, Ill. Filed Feb. 10, 1922.

Iron Trail

Particular description of goods.—Magazine Published Monthly.

Claims use since Jan. 1, 1922.

Ser. No. 159,178. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PELZER MANUFACTURING COMPANY, Pelzer, S. C. Filed Feb. 10, 1922.

Particular description of goods.—Cotton Piece Goods.

Claims use since 1913.

Ser. No. 159,198. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CHLOREATE COMPANY, Chicago, Ill. Filed Feb. 11, 1922.

Chloreate

Particular description of goods.—Toilet Powder.

Claims use since July 7, 1921.

Ser. No. 159,214. (CLASS 38. PRINTS AND PUBLICATIONS.) MCLOUGHLIN BROS., INC., Springfield, Mass. Filed Feb. 11, 1922.

YOUNG FOLKS STANDARD LIBRARY

Particular description of goods.—Books in a Continuing Series.

Claims use since July 1, 1908.

Ser. No. 159,226. (CLASS 17. TOBACCO PRODUCTS.) "TURMAC" TURKISH-MACEDONIAN TOBACCO CO., Arnhem, Netherlands. Filed Feb. 11, 1922.

RAMADAN

Trade-mark consists of the word "Ramadan."

Particular description of goods.—Smoking and Chewing Tobacco, Cigars, Cigarettes, and Snuff.

Claims use since Sept. 1, 1921.

Ser. No. 159,271. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ISADORE LEWYN, doing business as Lewyn Drug Co., Houston, Tex. Filed Feb. 13, 1922.

R 5000

Particular description of goods.—Women's Tonic and Regulator.

Claims use since Jan. 1, 1910.

Ser. No. 159,273. (CLASS 38. PRINTS AND PUBLICATIONS.) JOSEPH P. MCEVOY, Chicago, Ill. Filed Feb. 13, 1922.

THE POTTERS

Particular description of goods.—Series of Separate Illustrated Stories or Playlets in Verse and Prose Published Weekly in a Daily Newspaper and Setting Forth Episodes in the Family Life of the So-Called Potter Family.

Claims use since November, 1920.

Ser. No. 159,290. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SHLIVEK BROTHERS FABRICS CORPORATION, New York, N. Y. Filed Feb. 13, 1922.

SACALAINE

Particular description of goods.—Wool, Wool and Cotton, and Wool and Silk Mixture Fabrics in the Piece.

Claims use since about Nov. 15, 1921.

Ser. No. 159,295. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARIE SHIELDS, New York, N. Y. Filed Feb. 13, 1922.

Particular description of goods.—Toilet Preparations, and More Particularly Hair Tonics, Perfumes, Toilet Creams, Face Powders and Lotions, and Nail Polishes.

Claims use since about Aug. 26, 1921.

Ser. No. 159,353. (CLASS 25. LOCKS AND SAFES.) EAGLE LOCK CO., Terryville, Conn. Filed Feb. 15, 1922.

EAGLE

Particular description of goods.—Locks, Night-Latches, and Padlocks.

Claims use since 1914.

Ser. No. 159,371. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. K. MULFORD COMPANY, Philadelphia, Pa. Filed Feb. 15, 1922.

SOMNOS

Particular description of goods.—Preparation Used as a Remedy for Insomnia and Restlessness.

Claims use since Jan. 1, 1900.

Ser. No. 159,421. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KOKEN COMPANIES, St. Louis, Mo. Filed Feb. 16, 1922.

SHEBA

Particular description of goods.—Toilet Waters and Perfumes.

Claims use since Feb. 9, 1922.

Ser. No. 159,422. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM KAHN, doing business as Kahn's Perfumery, St. Louis, Mo. Filed Feb. 16, 1922.

KANTOL

Particular description of goods.—Cold Creams, Foundation Creams, Massage Creams, Skin Balms, Lemon Lotions, Beauty Lotions, Toilet Waters, Face Compacts, Face Tints, Lip Rouges, Hair Lotions, Hair Tonics, Hair Colorings, Liquid Shampoos, Hair Whiteners, Curling Fluids, Henna Powders, Shampoo Powders, Brilliantines, Bandolines, Depilatory Powders, Nail Bleaches, Nail Lusters, Nail Whiteners, Nail Glosses, Nail Sheens, Nail Creams, and Nail Polishes.

Claims use since May 15, 1919.

Ser. No. 159,424. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) LITTLE GIANT COMPANY, Minneapolis, Minn. Filed Feb. 16, 1922.

Particular description of goods.—Devices for Sustaining Clothing, Linen, Floor Coverings, and Other Like Articles at Variable Heights in Connection with the Laundering of the Same.
Claims use since 1912.

Ser. No. 159,524. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE PROMETHEUS ELECTRIC COMPANY, New York, N. Y. Filed Feb. 18, 1922.

AERO FONE

Trade-mark consists of the coined words "Aero Fone."
Particular description of goods.—Wireless-Telephone Receiving Sets.
Claims use since Jan. 28, 1921.

Ser. No. 159,601. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LIGHT-SIGHT PRODUCTS CORPORATION, Pierre, S. Dak., and Warren Pa. Filed Feb. 20, 1922.

The trade-mark is lined to indicate surface lining only.
Particular description of goods.—Electric Lamp.
Claims use since Jan. 3, 1922.

Ser. No. 159,611. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES. PHILADELPHIA STEAM HEATING CO., Philadelphia, Pa. Filed Feb. 20, 1922.

OXYKOL

Particular description of goods.—Automatically Electrically-Controlled Draft Devices for Heating Apparatus
Claims use since about Jan. 15, 1922.

Ser. No. 159,616. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) GUSTAV H. RADEBAUGH, doing business as The Production Service Company, Urbana, Ill. Filed Feb. 20, 1922.

Schedulegraph

Particular description of goods.—Job Bulletin Boards
Claims use since January, 1918.

Ser. No. 159,620. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ADOLPH ROSENBERG & CO., INC., New York, N. Y. Filed Feb. 20, 1922

SEMINOLE MILLS

Particular description of goods.—Cotton Linings—viz, Pocketings, Silesias, Sleeve Linings, and Wigans
Claims use since Jan. 3, 1922.

Ser. No. 159,646. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE COLUMBIA MILLS, INC., New York, N. Y. Filed Feb. 21, 1922

Supertex

Particular description of goods.—Window-Shade Cloth in the Piece Made of Cotton Muslin
Claims use since Feb. 1, 1922

Ser. No. 159,663. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NEW ENGLAND SUPPLIES CORPORATION, Boston, Mass. Filed Feb. 21, 1922.

Nabor NET

Trade-mark consists of the words "Nabor Net." No claim to exclusive use of word "Net" apart from mark shown on drawing.

Particular description of goods.—Hair Nets.

Claims use since Dec. 1, 1921.

Ser. No. 159,724. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS. NOT INCLUDING ELECTRICAL APPARATUS.) SEATTLE PIPELESS FURNACE AND MANUFACTURING COMPANY, Seattle, Wash. Filed Feb. 23, 1922.

ARCWELD

Particular description of goods.—Coal Furnaces.

Claims use since Sept. 18, 1920.

Ser. No. 159,781. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES J. BROOKS, doing business as Brooks Brothers Drug Company, Golden, Tex. Filed Feb. 25, 1922.

BROOKS

Particular description of goods.—A Medicinal Preparation Recommended as a Mop and Gargle.

Claims use since Nov. 1, 1918.

Ser. No. 159,851. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CLAYBURGH BROTHERS, San Francisco, Calif. Filed Feb. 27, 1922.

Chemisette

Particular description of goods.—Tubular Knit Fabric Made of Artificial Silk.

Claims use since May 19, 1921.

Ser. No. 159,917. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BURNS PRODUCTS COMPANY, Ansonia, Conn. Filed Feb. 28, 1922.

TRADE DADS MARK

No claim is made to the words "Trade Mark" appearing on drawing apart from the mark.

Particular description of goods.—Soap and Soap Powders.

Claims use since Jan. 1, 1922.

Ser. No. 159,958. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WALTER DOBSCHUTZ, St. Louis, Mo. Filed Feb. 28, 1922.

STEP LIGHT

Particular description of goods.—Electric Lights for Automobile Running Boards.

Claims use since Feb. 11, 1922.

Ser. No. 159,976. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) MYEROW BROS., Boston, Mass. Filed Feb. 28, 1922.

PAUL REVERE

Particular description of goods—Bicycles.

Claims use since about Feb. 11, 1922.

Ser. No. 160,104. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WALKER STETSON COMPANY, Boston, Mass. Filed Mar. 2, 1922.

The Berkshire

Particular description of goods.—Hair Nets.
Claims use since Sept. 20, 1921.

Ser. No. 160,143. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE LYNDON CHEMICAL COMPANY, Dayton, Ohio. Filed Mar. 3, 1922.

Particular description of goods.—Germicide Disinfectant and Deodorizer for Expelling Insects, Parasites, and the Like from Animals.
Claims use since on or about Nov. 10, 1921.

Ser. No. 160,144. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PAUL L. MCCONOMY, trading as Hy-Ray Products Co., Philadelphia, Pa. Filed Mar. 3, 1922.

HY-RAY

Particular description of goods.—Sunburn Cream.
Claims use since about Feb. 1, 1921.

Ser. No. 160,180. (CLASS 6. CHEMICALS MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) L. L. BRIDEN & CO., Boston, Mass. Filed Mar. 4, 1922.

ARROCHROME

Particular description of goods.—Dyes.
Claims use since Jan. 12, 1922.

Ser. No. 160,181. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) L. L. BRIDEN & CO., Boston, Mass. Filed Mar. 4, 1922.

ALPHACYL

Particular description of goods.—Dyes.
Claims use since Jan. 23, 1922.

Ser. No. 160,273. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE ATLAS FOUNDRY COMPANY, Cleveland, Ohio. Filed Mar. 7, 1922.

Particular description of goods.—Welding Bars and Rods.
Claims use since about Feb. 15, 1922.

Ser. No. 160,275. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALFRED G. BARNES, Cuyahoga Falls, Ohio. Filed Mar. 7, 1922.

CHECK-IT

Particular description of goods.—Preparation in Form of Salve for the Relief of Influenza, a Preparation in Tablet Form for the Relief of Colds.
Claims use since January, 1916.

Ser. No. 160,289. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BERTHA HUREWICH, Philadelphia, Pa. Filed Mar. 7, 1922.

WONDERWAVE

Particular description of goods.—Curling Liquid.
Claims use since Apr. 1, 1921.

Ser. No. 160,294. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MALL DUNN MEDICINE COMPANY, Boston, Mass. Filed Mar. 7, 1922.

KAZAK

Particular description of goods.—Reconstructive Tonic.
Claims use since May 16, 1918.

Ser. No. 160,348. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOYLAND FLOUR MILLS COMPANY, Kansas City, Mo. Filed Mar. 8, 1922.

Particular description of goods.—Wheat Flour.
Claims use since about July 15, 1918.

Ser. No. 160,366. (CLASS 12. CONSTRUCTION MATERIALS.) STELWAGON MANUFACTURING CO., Philadelphia, Pa. Filed Mar. 8, 1922.

PENNOID

Particular description of goods.—Felt Roofing.
Claims use since about Jan. 1, 1919.

Ser. No. 160,431. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN F. RUCKEL, doing business as Noxaboil Laboratories, Chicago, Ill. Filed Mar. 9, 1922.

NOXABOIL

Particular description of goods.—Medicinal Preparation for the Treatment of Boils, Pimples, Abscesses, Carbuncles, Infections, and Ulcerated Teeth.
Claims use since August, 1920.

Ser. No. 160,494. (CLASS 17. TOBACCO PRODUCTS.) GENE VALL CIGAR CO., INC., New York, N. Y. Filed Mar. 10, 1922.

No claim is made to the exclusive use of the word "Habana" apart from the mark shown in the drawing
Particular description of goods.—Cigars.
Claims use since Feb. 6, 1922.

Ser. No. 160,535. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) THE BOSS WASHING MACHINE COMPANY, Norwood, Ohio. Filed Mar. 11, 1922. Under ten-year proviso.

BOSS

Particular description of goods.—Washing Machines for Laundry Purposes.
Claims use since Mar. 15, 1890.

Ser. No. 160,557. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO. INC., New York, N. Y. Filed Mar. 11, 1922.

PONY SKIN

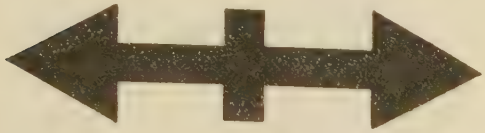
Particular description of goods.—Silk Piece Goods
Claims use since December, 1921.

Ser. No. 160,746. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BROWN & PENGILLY, Los Angeles, Calif. Filed Mar. 16, 1922.

MERCO

Particular description of goods.—Overload Relays.
Claims use since Mar. 1, 1919.

Ser. No. 160,869. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) CINCINNATI FROG & SWITCH CO., Cincinnati, Ohio. Filed Mar. 18, 1922.



Particular description of goods.—Railroad Frogs, Crossings, Rail Braces, and Guard Rails.
Claims use since July 7, 1921.

Ser. No. 160,924. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CHAMPION SPARK PLUG COMPANY, Toledo, Ohio. Filed Mar. 20, 1922.

CHAMPION
X

Particular description of goods.—Spark Plugs and Parts Thereof.
Claims use since January, 1911.

Ser. No. 161,060. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) HARRY D. PRIEST, doing business as Priest, Page & Co., Boston, Mass. Filed Mar. 22, 1922.

PEPCO

Trade-mark "Pepco."
Particular description of goods.—Hand Trucks Designated in the Trade as Mill Cars.
Claims use since Oct. 1, 1920.

Ser. No. 161,076. (CLASS 25. LOCKS AND SAFES.) THE VICTOR SAFE AND LOCK COMPANY, Cincinnati, Ohio. Filed Mar. 22, 1922.

VICTOR

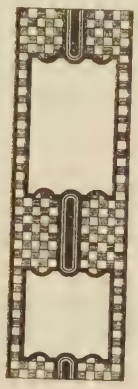
Particular description of goods.—Safes and Locks
Claims use since December, 1885.

Ser. No. 161,184. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) W. T. GRANT COMPANY, New York, N. Y. Filed Mar. 24, 1922.

E-Z

Particular description of goods.—Dry Batteries.
Claims use since Jan. 23, 1922.

Ser. No. 161,337. (CLASS 12. CONSTRUCTION MATERIALS.) RUTLAND FIRE CLAY CO., Rutland, Vt. Filed Mar. 27, 1922.



The lining in drawing is intended to represent shading.
Particular description of goods.—Asbestos Furnace Cement; Iron Cement, Which is Stiff Paste for Sealing the Joints in Soil Pipes and Filling Cracks or Breaks in Metal Casings; Gas-Retort Cement, Which is a Plastic Material Used for Patching Gas Retorts and Fire Boxes; Liquid Roof Cement, Plastic Roofing Cement, Paste Pipe-Joint Cement, and Plastic Stove Lining.
Claims use since some time in 1905.

Ser. No. 161,341. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) STAR MOTORS INCORPORATED, New York, N. Y. Filed Mar. 27, 1922.

STAR

Particular description of goods.—Automobiles and Constructive Parts Thereof.
Claims use since Mar. 9, 1922.

Ser. No. 161,392. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MAX STRAUSS, doing business as Strauss & Co., New York, N. Y. Filed Mar. 28, 1922.

CREPE FELICE

Trade-mark consists of the words "Crepe Felice," no claim being made to exclusive use of the word "Crepe" apart from mark shown on drawing.
Particular description of goods.—Piece Goods—Namely, Silk, Woolen, and Cotton and Combinations of the Same.
Claims use since [illegible] 5, 1922.

Ser. No. 161,425. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Mar. 29, 1922.

Tyrona

Particular description of goods.—Woolen Piece Goods.
Claims use since Jan. 20, 1922.

Ser. No. 161,426. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Mar. 29, 1922.

Tracia

Particular description of goods.—Woolen Piece Goods.
Claims use since Jan. 20, 1922.

Ser. No. 161,428. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Mar. 29, 1922.

Firoretta

Particular description of goods.—Woolen Piece Goods.
Claims use since Jan. 20, 1922.

Ser. No. 161,430. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Mar. 29, 1922.

Mellita

Particular description of goods.—Woolen Piece Goods.
Claims use since Jan. 20, 1922.

Ser. No. 161,431. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Mar. 29, 1922.

Flavina

Particular description of goods.—Woolen Piece Goods.
Claims use since Jan. 20, 1922.

Ser. No. 161,432. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Mar. 29, 1922.

Monnavana

Particular description of goods.—Woolen Piece Goods.
Claims use since Jan. 20, 1922.

Ser. No. 161,467. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WONDERNETTE COMPANY, New York, N. Y. Filed Mar. 29, 1922.

Particular description of goods.—Hair Nets.
Claims use since October, 1921.

Ser. No. 161,528. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CONTINENTAL BATTERY COMPANY, St. Louis, Mo. Filed Mar. 31, 1922.

CBC

Particular description of goods.—Lead Battery Plates.
Claims use since Nov. 11, 1919.

Ser. No. 161,560. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO. INC., New York, N. Y. Filed Mar. 31, 1922.

Cherez

Particular description of goods.—Silk Piece Goods.
Claims use since November, 1921.

Ser. No. 161,856. (CLASS 37. PAPER AND STATIONERY.) STANDARD CRAYON MANUFACTURING CO., Danvers, Mass. Filed Apr. 6, 1922.

Mother Goose

Particular description of goods.—Wax and Chalk Crayons.
Claims use since 1914.

Ser. No. 161,883. (CLASS 37. PAPER AND STATIONERY.) CHARLES F. HUBBS & CO., New York, N. Y. Filed Apr. 7, 1922.

WHALEBONE

Particular description of goods.—Paper from Which Patterns are Made.
Claims use since 1915.

Ser. No. 161,884. (CLASS 37. PAPER AND STATIONERY.) CHARLES F. HUBBS & CO., New York, N. Y. Filed Apr. 7, 1922.

CODE

Particular description of goods.—Writing and Printing Papers.
Claims use since January, 1919.

Ser. No. 161,928. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ARTHUR S. LOVELAND, doing business as Paradise Appliance Company, Detroit, Mich. Filed Apr. 8, 1922.

No claim is made to words "Electric Dish Washer" apart from mark shown.
Particular description of goods.—Electric Dish-Washing Machines.
Claims use since Jan. 4, 1922.

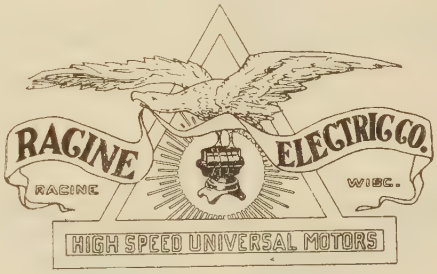
Ser. No. 162,014. (CLASS 27. HOROLOGICAL INSTRUMENTS.) HARRY E. JACOBI, Baltimore, Md. Filed Apr. 10, 1922.

No claim is made to the word "Trustworthy" apart from mark shown on drawing.
Particular description of goods.—Chronometers, Watches, Clocks, Wrist Watches, and Sautoir Watches.
Claims use since March, 1907.

Ser. No. 162,058. (CLASS 37. PAPER AND STATIONERY.) ARTHUR R. RAPP COMPANY, Chicago, Ill. Filed Apr. 10, 1922.

Particular description of goods.—Wrapping Paper, Bond Paper, and Cover Paper.
Claims use since January, 1922.

Ser. No. 162,059. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RACINE ELECTRIC CO., Racine, Wis. Filed Apr. 10, 1922.



No claim is made for words "Racine, Wisc." and "High Speed Universal Motors" apart from mark shown in drawing.
Particular description of goods.—Electric Motors.
Claims use since Mar. 25, 1922.

Ser. No. 162,100. (CLASS 17. TOBACCO PRODUCTS.) CHESTER R. BERRY, St. Paul, Minn. Filed Apr. 11, 1922.

40
8

Particular description of goods.—Cigars, Cigarettes, and Smoking Tobacco.
Claims use since Apr. 8, 1922.

Ser. No. 162,123. (CLASS 37. PAPER AND STATIONERY.) LIBERTY PAPER CO., New York, N. Y. Filed Apr. 11, 1922.

Particular description of goods.—Sealing Tape.
Claims use since Mar. 17, 1922.

Ser. No. 162,160. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) CARVEL & BUQUOR, El Paso, Tex. Filed Apr. 12, 1922.

No claim is made to words "Motor De Mexico" apart from the mark.
Particular description of goods.—Automobiles.
Claims use since Aug. 1, 1921.

Ser. No. 162,186. (CLASS 37. PAPER AND STATIONERY.) LISTO PENCIL CORPORATION, Alameda, Calif. Filed Apr. 12, 1922.

Listo

Particular description of goods.—Pencils.
Claims use since Oct. 28, 1921.

Ser. No. 162,222. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) UNITED ALLOY STEEL CORPORATION, New York, N. Y., and Canton, Ohio. Filed Apr. 12, 1922.

UNITED

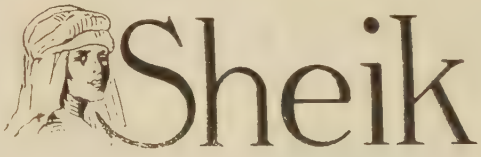
Particular description of goods.—Steel, Alloy Steel, Iron and Steel Bars, and Sheet Bars.
Claims use since Mar. 17, 1922.

Ser. No. 162,223. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) UNITED ALLOY STEEL CORPORATION, New York, N. Y., and Canton, Ohio. Filed Apr. 12, 1922.

ULOY

Particular description of goods.—Steel, Alloy Steel, Iron and Steel Bars, and Sheet Bars.
Claims use since October, 1921.

Ser. No. 162,363. (CLASS 17. TOBACCO PRODUCTS.) RALPH D. WARD, New York, N. Y. Filed Apr. 15, 1922.



Particular description of goods.—Cigars, Cigarettes, Smoking Tobacco, Chewing Tobacco, and Snuff.
Claims use since Apr. 8, 1922.

Ser. No. 162,413. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) BENJAMIN V. HARRISON CO., Boston, Mass. Filed Apr. 17, 1922.

HARCO

Particular description of goods.—Leathers
Claims use since July 16, 1921.

Ser. No. 162,497. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) MASON MOTOR TRUCK COMPANY, Flint, Mich. Filed Apr. 18, 1922.

RoadKing

Particular description of goods.—Motor Trucks and Constructive Parts Thereof.
Claims use since Mar. 31, 1922.

Ser. No. 162,584. (CLASS 17. TOBACCO PRODUCTS.) SIDNEY CIGAR MANUFACTURING COMPANY, Sidney, Ohio. Filed Apr. 19, 1922.

Big King

Particular description of goods.—Cigars.
Claims use since Mar. 25, 1922.

Ser. No. 162,747. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) LUDLUM STEEL COMPANY, Watervliet, N. Y. Filed Apr. 22, 1922.

PURPLE CHIP

Particular description of goods.—Alloy Steel.
Claims use since Feb. 24, 1922.

Ser. No. 162,748. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) LUDLUM STEEL COMPANY, Watervliet, N. Y. Filed Apr. 22, 1922.

PURPLE CUT

Particular description of goods.—Alloy Steel.
Claims use since Feb. 24, 1922.

Ser. No. 162,819. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) INTERNATIONAL PERMOLD COMPANY, Cleveland, Ohio. Filed Apr. 24, 1922.

permold

Particular description of goods.—Metal Castings.
Claims use since on or about Apr. 7, 1922.

Ser. No. 162,902. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed Apr. 25, 1922.

SOCONY

Particular description of goods.—Floor Oilers, Yarn Mops, Dust Cloths, and Yarn Dust Brushes.
Claims use since Feb. 26, 1908.

Ser. No. 162,913. (CLASS 17. TOBACCO PRODUCTS.) BAILEY BROTHERS INC., Winston-Salem, N. C. Filed Apr. 26, 1922.

BAMBINO

Particular description of goods.—Cigarettes and Smoking Tobacco.
Claims use since Apr. 14, 1922.

Ser. No. 162,958. (CLASS 33. GLASSWARE.) SOUTHERN GLASS COMPANY, Los Angeles, Calif. Filed Apr. 26, 1922.

TRAXTUF

Particular description of goods.—Glass Bottles.
Claims use since Mar. 10, 1922.

Ser. No. 163,007. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ST. LAWRENCE BOAT WORKS, INC., Ogdensburg, N. Y. Filed Apr. 27, 1922.

"WHISTLE WING"

Particular description of goods.—Skiffs, Rowboats, and Canoes.
Claims use since Mar. 29, 1922.

Ser. No. 163,008. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ST. LAWRENCE BOAT WORKS, INC., Ogdensburg, N. Y. Filed Apr. 27, 1922.

Particular description of goods.—Skiffs, Rowboats, and Canoes.
Claims use since Mar. 29, 1922.

Ser. No. 163,063. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WINCHESTER REPEATING ARMS CO., New Haven, Conn. Filed Apr. 28, 1922. Under section 9 of the act of Mar. 19, 1920.

WINCHESTER

Particular description of goods.—Split-Bamboo Fly Fishing Rods, Split-Bamboo Bait Fishing Rods, Split-Bamboo Bait Casting Rods, Steel Fly Fishing Rods, Steel Bait Fishing Rods, Steel Bait Casting Rods, Enameled Silk Fishing Lines, Braided Silk Fishing Lines, Silkaline Fishing Lines, Cotton Fishing Lines, Linen Fishing Lines, Single-Action Reels, Double-Action Reels, Quadruple-Action Reels, Spoon Baits, Spinner Baits, Plug Baits, Stringers, Disgorgers, and Sinkers.
Claims use since Mar. 1, 1921.

Ser. No. 163,085. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE "HOLEMTITE" AUTO SEAT COMPANY, Chattanooga, Tenn. Filed Apr. 29, 1922.

"HOL-EM-TITE"

Particular description of goods.—Auxiliary Seats for Automobiles.
Claims use since Feb. 13, 1922.

Ser. No. 163,175. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) REID, MURDOCH & CO., Chicago, Ill. Filed May 1, 1922.

MONARCH

Particular description of goods.—Grape Juice.
Claims use since 1900.

Ser. No. 163,270. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARTHUR G. GRENOBLE, Baltimore, Md. Filed May 3, 1922.

Arthur G

Particular description of goods.—Serum for the Treatment of Cancer.
Claims use since 1902.

Ser. No. 163,435. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BENJAMIN F. DARNEILLE, doing business as Le Pinx Laboratories, Springfield, Ill. Filed May 6, 1922.

Le PINX

Particular description of goods.—Skin-Cleansing Creams, Toilet Powders, Shampoos, Hand Lotions, Face Lotions, and Toilet Creams.
Claims use since December, 1920.

Ser. No. 163,439. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) WADE H. ELAM, Nashville, Tenn. Filed May 6, 1922.

ORANGE KRAZE

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink and Sirup for Making the Same.
Claims use since Feb. 20, 1921.

Ser. No. 163,454. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) MAGNOLIA METAL COMPANY, New York, N. Y. Filed May 6, 1922.

ADAMANT

Trade-mark consists of the word "Adamant."
Particular description of goods.—Babbitt, Bearing, and Antifriction Metals and Alloys.
Claims use since Dec. 12, 1901.

Ser. No. 163,467. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) PURE PRODUCTS SYRUP CORPORATION, New York, N. Y. Filed May 6, 1922.

Menifruits

Particular description of goods.—Nonalcoholic, Noncereal, Maltless, Fruit-Juice Beverages Sold as Soft Drinks, and Sirups for Making Same.
Claims use since Dec. 1, 1920.

Ser. No. 163,516. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) A. M. GUTTERMAN & SONS CO., Boston, Mass. Filed May 8, 1922.

Particular description of goods.—Leathers.
Claims use since Feb. 2, 1922.

Ser. No. 163,644. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) NORTHWEST FRUIT PRODUCTS CO., Salem, Oreg. Filed May 10, 1922.

Logan=ju

Particular description of goods.—Loganberry Juice for Use in the Manufacture of Nonalcoholic Maltless Beverages.
Claims use since Feb. 1, 1922.

Ser. No. 163,669. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) W. ATLEE BURPEE CO., Philadelphia, Pa. Filed May 11, 1922. Under ten-year proviso.

Burpee's Seeds Grow

Particular description of goods.—Vegetable Seeds, Flower Seeds, Field Seeds, Bulbs, Roots, and Plants.
Claims use since January, 1891.

Ser. No. 163,851. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) HENRY G. ABELE, doing business as Abele Bottling Works, Peekskill, N. Y. Filed May 15, 1922.

Clearock

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirup for Making the Same.
Claims use since Mar. 1, 1909.

Ser. No. 163,892. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) JOHN W. POOLE, doing business as Victory Bottling Works, Terra Alta, W. Va. Filed May 15, 1922.

GREEN MOUNTAIN

Particular description of goods.—Nonalcoholic Noncereal Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Apr. 1, 1916.

Ser. No. 164,068. (CLASS 17. TOBACCO PRODUCTS.) RAPHAEL N. PARIS, York, Pa. Filed May 18, 1922.

CADET

Particular description of goods.—Cigars and Little Cigars.
Claims use since March, 1909.

Ser. No. 164,210. (CLASS 17. TOBACCO PRODUCTS.) ALICE S. WILDES, doing business as Alys, New York, N. Y. Filed May 20, 1922.

SHEIK

Particular description of goods.—Cigarettes.
Claims use since Dec. 1, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

JUNE 27, 1922.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

156,498. (CLASS 5. ADHESIVES.) JOE ALEXANDER, Montgomery, W. Va. Filed Dec. 17, 1920. Serial No. 141,265.

SOLE STICK

Particular description of goods.—Adhesive for the Application of Soles to Shoes.
Claims use since Nov. 19, 1920.

156,499. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) AMERICAN BRAIDING COMPANY, Holyoke, Mass. Filed June 6, 1921. Serial No. 148,685.

Particular description of goods.—Shoe and Corset Laces and Braids.
Claims use since March, 1918.

156,500. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ASHAWAY LINE & TWINE MANUFACTURING COMPANY, Ashaway, R. I. Filed Jan. 12, 1922. Serial No. 157,820.

BEST BASS

Particular description of goods.—Fishing Lines.
Claims use since 1903.

156,501. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) E. C. ATKINS & COMPANY, Indianapolis, Ind. Filed Apr. 29, 1921. Serial No. 146,949.

KWIK-KUT

Particular description of goods.—Hack-Saw Machines.
Claims use since about Jan. 1, 1914.

156,502. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BASTANCHURY RANCH COMPANY, Fullerton, Calif. Filed Sept. 28, 1921. Serial No. 153,433.

BASQVE

Particular description of goods.—Fresh Citrus Fruits.
Claims use since Jan. 15, 1921.

156,503. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BORDEAUX & NEW YORK TRADING CO., New York, N. Y. Filed June 13, 1921. Serial No. 149,051.

Dorsay Brand

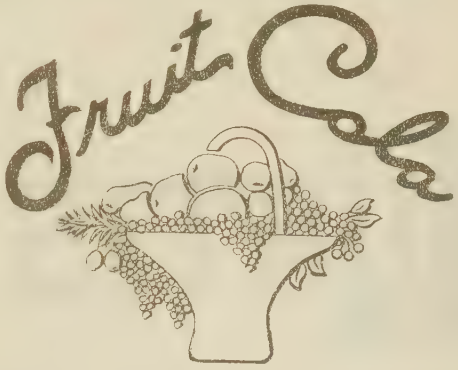
The shading in the drawing represents the colors red and blue. The word "Brand" is disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Bar-le-Duc Jelly, Mushrooms, Peppers or Pimientos, Sardines.
Claims use since January, 1915.

156,504. (CLASS 37. PAPER AND STATIONERY.) J. W. BUTLER PAPER COMPANY, Chicago, Ill. Filed Nov. 22, 1920. Serial No. 139,948.

ECONOMY BRISTOL

Particular description of goods.—Bristol Board.
Claims use since 1906.

156,505. (CLASS 45. BEVERAGES, NONALCOHOLIC.) CARD-MARTIN COMPANY, Jellico, Tenn. Filed June 27, 1921. Serial No. 149,685.



Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since March, 1919.

156,506. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) DANIEL H. CHASON, Elizabeth, N. J. Filed June 30, 1920. Serial No. 134,408.

KANTRATTLE

Particular description of goods.—Window Antirattlers.
Claims use since about Jan. 15, 1920.

156,507. (CLASS 45. BEVERAGES, NONALCOHOLIC.) THE CINCINNATI BEVERAGE AND PRODUCTS CO., Cincinnati, Ohio. Filed May 14, 1921. Serial No. 147,708.

Orange-Flip

Particular description of goods. -A Nonalcoholic, Maltless Fruit Beverage Sold as a Soft Drink and Sirup Therefor.
Claims use since Oct. 1, 1920.

156,508. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) CRANE PACKING COMPANY, Chicago, Ill. Filed Oct. 29, 1921. Serial No. 154,724.

JOHN CRANE

Particular description of goods.—Metallic Packing.
Claims use since Jan. 13, 1917.

156,509. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) CRESCENT BELT FASTENER COMPANY, New York, N. Y. Filed Mar. 27, 1922. Serial No. 161,303.

CRESCENT
BELT FASTENERS

Particular description of goods.—Fasteners, Plates, Clamps, and Rivets Made of Any Metal for Machinery Belting.
Claims use since June 29, 1918.

156,510. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CURTIS CORPORATION, Long Beach, Calif. Filed Oct. 10, 1921. Serial No. 153,920.

CURTIS

Particular description of goods.—Canned Ripe Olives, Artichokes, Tuna Fish, Pimientos, Kippered Meat of the Bonita Fish, Peppers, Sandwich Filling, and Sardines.
Claims use since Nov. 21, 1913.

156,511. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) DAUBENSPECK CHAIN COMPANY, Butler, Pa. Filed Aug. 10, 1920. Serial No. 135,965.

MINUTE

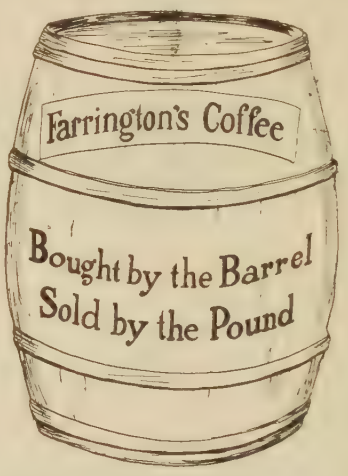
Particular description of goods.—Vehicle Wheel and Tire Chains Consisting of Traction Chains and Antiskid Chains.
Claims use since Oct. 16, 1919.

156,512. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) ECLIPSE LIGHT COMPANY, New York, N. Y., assignor to London Lightingwares Corporation, a Corporation of New York. Filed Oct. 24, 1921. Serial No. 154,495.

LIGHTINGWARES

Particular description of goods.—Gas Upright and Inverted Burners, Fixtures, Brackets, Pendants, Mantles, Fittings, Tips, Heaters, Ceiling Lights; Table, Floor, and Boudoir Lamps; Ranges, Grills, and Cooking Stoves, All of the Foregoing for Use in Connection with Gas.
Claims use since July 1, 1920.

156,513. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE G. B. FARRINGTON COMPANY, New York, N. Y. Filed Nov. 18, 1921. Serial No. 155,353.



Particular description of goods.—Coffee.
Claims use since about 1916.

156,514. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE FASTFEED DRILL & TOOL CORPORATION, Toledo, Ohio. Filed May 21, 1921. Serial No. 148,022.

FASTFEED

Particular description of goods.—Drills, Reamers, End Mills, Slitting Saws, for Drilling, Reaming, and Cutting Metal.
Claims use since November, 1919.

156,515. (CLASS 45. BEVERAGES, NONALCOHOLIC.) GEORGES PRUNIER & CIE., Paris, France. Filed June 6, 1921. Serial No. 148,757.

COMPRIMÉS-VICHY-ÉTAT

Particular description of goods.—Mineral-Water Salts in Tablet Form.
Claims use since Aug. 3, 1897.

156,516. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. F. GLADDING & CO. INC., South Otselic, N. Y. Filed Oct. 22, 1921. Serial No. 154,446.

Particular description of goods.—Fishing Lines.
Claims use since Aug. 22, 1912.

156,517. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. F. GLADDING & CO. INC., South Otselic, N. Y. Filed Oct. 25, 1921. Serial No. 154,554.

Particular description of goods.—Fishing Lines.
Claims use since Aug. 22, 1912.

156,518. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HERMAN GOELITZ, Portland, Oreg. Filed July 18, 1921. Serial No. 150,527.

Particular description of goods.—Candy.
Claims use since Jan. 1, 1921.

156,519. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE GOHEEN CORPORATION, Wilmington, Del., and Warren, Ohio. Filed Mar. 2, 1920. Serial No. 129,140.

Public Service White

Particular description of goods.—Paints in Various Colors for Foundation and Finishing Coats on Wood, Brick, Concrete, Plaster, Metal, and Wall Board.
Claims use since 1914.

156,520. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GOODELL-PRATT COMPANY, Greenfield, Mass. Filed Dec. 8, 1920. Serial No. 140,793.

Toolsmiths

Particular description of goods.—Arbors, Augers, Awls, Belt Tighteners, Bench Hooks, Bench Tables, Bits, Bit-Brace Extensions, Bit Braces, Butterises, Lathe Centers, Center Finders, Center Punches, Chisels, Chucks, Clamps, Clapboard Markers, Countershafts, Countersinks, Cotter-Pin Pullers, Cutting-Off Tools, Drawshave Guides, Doweling Machines, Drills, Drill Points and Drilling Machines, Files, Foot-Power Tables, Glass Cutters, Grinders and Grinding Machines, Hammers, Hollow-Handle Tool Sets, Ice Picks, Key-Seating Rule Blocks, Knurling Tools, Lathes and Attachments, Miter Boxes, Nail Sets, Oilstones, Pliers, Pole Collars, Polishing Lathes, Punches, Dies and Punching Machines, Ratchets, Reamers, Rivet Sets, Saws, Saw Blades and Frames, Saw Sets, Saw Arbors, Scrapers, Screw Drivers and Sets, Scribers, Shears, Spokeshaves, Tack Claw, Tool Handles, V Blocks, Valve Lifters, Vises, Wire Threaders, and Wrenches.
Claims use since 1906.

156,521. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WAYNE B. GREEN, Houston, Tex. Filed Oct. 17, 1921. Serial No. 154,186.

Enamel-Lac

Particular description of goods.—Paint Renovator.
Claims use since Nov. 8, 1920.

156,522. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HERMAN JACOB GREENHUT, Pensacola, Fla. Filed Sept. 28, 1921. Serial No. 153,452.

BETTER GOODS BRAND

Particular description of goods.—Candies and Canned Soups.
Claims use since Nov. 16, 1915.

156,523. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MAX GRUMBACHER, New York, N. Y. Filed Mar. 22, 1922. Serial No. 161,090.

"MARKWELL"

Particular description of goods.—Artists' Brushes.
Claims use since Jan. 1, 1910.

156,524. (CLASS 43. THREAD AND YARN.) GUDEBROD BROS. SILK CO., New York, N. Y., and Philadelphia, Pa. Filed Apr. 14, 1922. Serial No. 162,293.

Particular description of goods.—Spool Silk.
Claims use since 1898.

156,525. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) HAUSER & WEIL, New York, N. Y. Filed June 6, 1921. Serial No. 148,733.

Particular description of goods.—Fitted Toilet Cases, Unfitted Toilet Cases, Adjustable Toilet Rolls, Limousine Cases, Week-End and Over-Night Bags, Pocketbooks and Hand Bags, Portfolios, Leather Collar Bags and Boxes, Leather Shirt Cases, Leather Handkerchief and Tie Cases.
Claims use since Nov. 4, 1915.

156,526. (CLASS 42, KNITTED, NETTED, AND TEXTILE FABRICS.) JAMES A. HEARN & SON INC., New York, N. Y. Filed Feb. 21, 1922. Serial No. 159,654.

Particular description of goods.—Nainsooks, Poplins, Long Cloth, and Cambrics in the Piece.
Claims use since about Feb. 1, 1902.

156,527. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) J. A. HENCKELS, New York, N. Y. Filed Oct. 11, 1921. Serial No. 153,978.

"Platinum"

Particular description of goods.—Razors.
Claims use since 1912.

156,528. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE HENDLER CREAMERY COMPANY, Baltimore, Md. Filed Nov. 25, 1921. Serial No. 155,965.

Hendlers

Particular description of goods.—Ice Cream.
Claims use since 1908.

156,526. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) HUDFORD COMPANY OF CHICAGO, Chicago, Ill. Filed Mar. 18, 1920. Serial No. 129,891½.

Fitzall

Particular description of goods.—Motor Trucks, Conversion Units for Making Motor Trucks from Automobiles, and Parts Thereof.
Claims use since June 15, 1919.

156,530. (CLASS 37. PAPER AND STATIONERY.) THE HUGH STEPHENS PRINTING & STATIONERY COMPANY, Jefferson City, Mo. Filed July 18, 1921. Serial No. 150,532.

HUGH STEPHENS
KRAFT BUILT

Particular description of goods.—Covers for Embossed and Illuminated Dance Programs, Invitations, Calendars, Announcements, Diplomas, Book Bindings, Handbooks, and Memory Books.
Claims use since Apr. 1, 1921.

156,531. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JESSE C. JOHNSON, San Francisco, Calif. Filed Dec. 27, 1921. Serial No 157,153.

S. T. JOHNSON CO.
OIL BURNERS

Particular description of goods.—Fuel-Oil Pumps and Crude-Oil Pumping Equipments.
Claims use since 1906.

156,532. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE C. M. KOPP COMPANY, Yakima, Wash. Filed Oct. 3, 1921. Serial No. 153,666.

ALL AMERICAN

Particular description of goods.—Fresh Apples and Pears.
Claims use since Sept. 1, 1918.

156,533. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) AARON KOSOFSKY, New York, N. Y. Filed Nov. 19, 1921. Serial No. 155,621

HUDSON BAY SEAL

Particular description of goods.—Rabbit Skins Dyed by Special Process to be Made into Fur Garments.
Claims use since Oct. 10, 1913.

156,534. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LONSDALE COMPANY, Providence, R. I. Filed June 8, 1921. Serial No. 148,846.

DUMBARTON

GRASS CLOTH

FOR HOUSEHOLD USE

Particular description of goods.—Cotton Goods in the Piece.
Claims use since Jan. 1, 1913.

156,535. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) MALT EXTRACT CO., St. Louis, Mo. Filed Oct. 8, 1921. Serial No. 153,887.

"Pilsener"

Particular description of goods.—Hops.
Claims use since May 1, 1921.

156,536. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE MANHATTAN RUBBER MFG. CO., Passaic, N. J. Filed Mar. 30, 1922. Serial No. 161,498.

LAMINA

Particular description of goods.—Machine Belting Composed of Rubber or Rubber and Fabric.
Claims use since about October, 1913.

156,537. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDNA MAY CANDY CO., Harrisburg, Pa. Filed Sept. 20, 1921. Serial No. 153,151.

Edna May

Particular description of goods.—Candy.
Claims use since Nov. 15, 1920.

156,538. (CLASS 39. CLOTHING.) MERIT UNDERWEAR COMPANY, Shoemakersville, Pa. Filed Nov. 18, 1921. Serial No. 155,567.

Verna

Particular description of goods.—Women's Knitted Underwear.
Claims use since March, 1913.

156,539. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ANGELO MERLINO, Seattle, Wash. Filed July 25, 1921. Serial No. 150,913.

Particular description of goods.—Olive Oil.
Claims use since 1909.

156,540. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN MORRELL & CO., Ottumwa, Iowa. Filed July 18, 1921. Serial No. 150,549.

Morrells

Particular description of goods.—Hams, Shoulders, Boneless Butts, Picnics, Bacons, Dried Beef, Tongues, Lard, Lard Oil, Cheese, Butter, Eggs, Pork Loin, Sausage, Souse, Tripe, Chile Con Carne, Corned Beef, Extract of Beef, Lunch Tongue; Potted Beef, Pork, and Mutton, Roast Beef, Luncheon Meat, Hash, Ox Tongue, Meat Loaf, Deviled Meat, Oxtail Soup, Marmalade, Vegetable Soup, Plum Pudding, Pork and Beans, Mincemeat, Beef and Pork Brains, Pig's Feet, Beef, Pork, and Mutton Hearts, Beef and Pork Tenderloins, Beef and Pork Hocks, Sweetbreads.
Claims use since Mar. 22, 1897.

156,541. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) R. F. NEUBERT CO., Mankato, Minn. Filed Apr. 20, 1922. Serial No. 162,641.

THE MANKATO

Particular description of goods.—Brooders and Incubators.
Claims use since November, 1907.

156,542. (CLASS 12. CONSTRUCTION MATERIALS.) NORTHWESTERN EXPANDED METAL COMPANY, Chicago, Ill. Filed Apr. 22, 1921. Serial No. 146,574.

Long Span

Particular description of goods.—Expanded-Metal Laths.
Claims use since on or about Apr. 15, 1921.

156,543. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) OLD RELIABLE MOTOR TRUCK CORPORATION, Chicago, Ill. Filed Mar. 24, 1922. Serial No. 161,197.

"Old Reliable"

Particular description of goods.—Automobile Trucks.
Claims use since March, 1911.

156,544. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) OREGON CITY MFG. CO., Oregon City, Oreg. Filed Mar. 13, 1922. Serial No. 160,628.

HUDSON BAY

Particular description of goods.—Woolen Blankets.
Claims use since before 1905.

156,545. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) G. G. ROBERTS CORPORATION, Town of Whitman, Mass. Filed Jan. 15, 1921. Serial No. 142,307.

PERFECTION

Particular description of goods.—Carpet-Laying Tacks.
Claims use since Jan. 2, 1905.

156,546. (CLASS 32. FURNITURE AND UPHOLSTERY.) W. C. ROBERTS COMPANY, Indianapolis, Ind. Filed Oct. 24, 1921. Serial No. 154,533.

"They're Hot"

Particular description of goods.—Display Cabinet for Nuts and the Like.
Claims use since Feb. 1, 1921.

156,547. (CLASS 32. FURNITURE AND UPHOLSTERY.) W. C. ROBERTS COMPANY, Indianapolis, Ind. Filed Oct. 24, 1921. Serial No. 154,534.

"Nut Salesman"

Particular description of goods.—Display Cabinets for Nuts and the Like.
Claims use since Feb. 1, 1921.

156,548. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PETER SCIARRA, Benld, Ill. Filed Nov. 30, 1921. Serial No. 156,116.

Particular description of goods.—Live Poultry.
Claims use since Jan. 2, 1915.

156,549. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CYRIL B. SHAWCROSS, Fort Myers, Fla. Filed May 20, 1921. Serial No. 147,985.

HI-GLOSS

Particular description of goods.—Polish for Use Upon Automobiles, Carriages, Pianos, Furniture, and All Varnished and Enameled Surfaces.
Claims use since Apr. 1, 1921.

156,550. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) GILMAN B. SMITH COMPANY INC., New York, N. Y. Filed Nov. 19, 1921. Serial No. 155,642.

Smith's

Particular description of goods.—Collar Foundations, Collar Supports, Girdle Foundations, Inside Skirt Belting, Collar Flares, Girdle Banding, Snap-Fastener Tape, Eyelet Tape, Hook Tape, Collar Braces, Cable Cord for Cording Garments, Ribbon Wire, Bonnet Wire, Celluloid in Strips for Boning or Stiffening Garments, Hair Rolls, Loop Tape, and Hair Pads.
Claims use since Feb. 7, 1912, for collar foundations; since about Jan. 1, 1917, for collar supports; since Feb. 5, 1912, for girdle foundations; since about Jan. 1, 1915, for inside skirt belting and collar flares; since about Aug. 1, 1914, for girdle banding; since about Feb. 1, 1915, for snap-fastener tape; since about Jan. 1, 1919, for eyelet tape and hook tape; since about Apr. 1, 1916, for collar braces; since Feb. 5, 1912, for cable cord, ribbon wire, bonnet wire, celluloid in strips, hair rolls, and loop tape, and since Feb. 2, 1912, for hair pads.

156,551. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY (Incorporated in New Jersey), Bayonne, N. J., and New York, N. Y. Filed Dec. 5, 1921. Serial No. 156,309.

STANDARD
OIL COMPANY
(NEW JERSEY)

Particular description of goods.—Axle Greases, Black Greases, Black Oils, Brick-Mold Oils, Burning Oils, Burning Oils for Miner's Lamps, Candles, Car-Journal-Box Oils, Coach-Axle Oils, Cold-Test Cylinder Oils, Compounded Oils, Compressor Oils, Crank-Case Oils, Cream-Separator Oils, Crude Lubricating Oils, Crude Oils, Cup Greases, Cutting Oils, Cylinder Oils, Dark Axle Greases, Dark Filtered Cylinder Oils, Dynamo Oils, Elevator-Circulating-System Oils, Engine Oils, Extra-Filtered Cylinder Oils, Extra-Heavy Lubricating Oils, Extra-Heavy Turbine Oils, Farming-Implement Oils, Fiber Greases Lubricating, Fuel Oils, Gas-Engine Cylinder Oils, Gas-Engine Lubricating Oil, Gas-Engine-Tractor Lubricating Oils, Gear Greases, Harness Oils, Harvesting-Machinery Oils, Heating Oils, Heavy Engine Oils, Heavy Filtered Spindle Oils, Heavy Motor Oils, Heavy Turbine Oils, Illuminating Oils, Journal Oils, Kerosene Oils, Lantern Oils, Light Axle Greases, Loom Oils, Low-Pressure Cylinder Oils, Lubricating Greases, Lubricating Oils, Machine Oils, Mine-Car Oils, Mine-Car Motor Oils, Motor Gasolines, Motor Oils, Naphthas, Wax Tailings, Crude Scale Wax, Gas Oil, Gas-Machine Gasoline, Neutral Oils, Paraffin Oils, Paraffin Wax, Petroleum Greases, No. 1 Petroleum Greases, No. 2 Petroleum Greases, No. 3 Petroleum Greases, No. 4 Petroleum Greases, No. 5 Petroleum Greases, No. 6 Petroleum Greases, Power Oils, Railway-Car Oils, Refrigerating-Machine Oils, Road Oils, Roofing Oils, Sewing-Machine Oils, Signal-Lantern Oils, Spindle Oils, Steam-Cylinder Oils, Stock Oils, Stone-Crusher Oils, Straw Oils, Straw Paraffin Oils, Tempering Oils, Transformer Oils, Transmission Lubricants, Transmission Oils, Thread-Cutting Oils, Turbine Oils, Valve Oils, Cable-Lubricating Oils, Rerun Wax Tailings, Deodorized Gasolines, Deodorized Naphthas, Mineral

Seal Oils, and White Spindle Oils, in the Nature of Oils and Greases.

Claims use since more than one year prior to the date of this application.

156,552. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY (Incorporated in New Jersey), Bayonne, N. J., and New York, N. Y. Filed Dec. 5, 1921. Serial No. 156,312.

STANDARD

Particular description of goods.—Sewing-Machine Oils, Transformer Oils, Cable-Lubricating Oils, Cylinder Oils, Low-Pressure Cylinder Oils, Crank-Case Oils, Turbine Oils, Medium Turbine Oils, Heavy Turbine Oils, Extra-Heavy Turbine Oils, Gas-Engine Oils, Compressor Oils, Spindle Oils, Loom Oils, Lubricating Oils, Household Lubricants, Mine-Motor Oils, Harvesting-Machinery Oils, Farming-Implement Oils, Cream-Separator Oils, Fuel Oils, Motor Gasolines, Road Oils, and Power Oils, Gas-Machine Gasoline.

Claims use for more than one year prior to the date of this application.

156,553. (CLASS 45. BEVERAGES, NONALCOHOLIC.) LOUIS STEINBERGER, Jersey City, N. J. Filed Mar. 28, 1922. Serial No. 161,389.

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.

Claims use since Mar. 1, 1909.

156,554. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ADOLPH STOECKER & SON, Brooklyn, N. Y. Filed July 19, 1921. Serial No. 150,637.

Coffee de Luxe

Particular description of goods.—Coffee.

Claims use since September, 1911.

156,555. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE STOLL MFG. CO., Denver, Colo. Filed Apr. 8, 1922. Serial No. 161,943.

Stoll
OUTING EQUIPMENT

Particular description of goods.—Automobile Beds, Folding Camp Beds, Camp Tables, Camp Chairs, Camp Stools, Suitcase Tables, and Mattress Pads.

Claims use since July 1, 1918.

156,556. (CLASS 12. CONSTRUCTION MATERIALS.) THE TEXAS COMPANY, Houston, Tex., and New York, N. Y. Filed Mar. 9, 1922. Serial No. 160,442.

THE TEXAS COMPANY

Particular description of goods.—Asphalt Products—Namely, Solid, Semisolid, and Liquid Asphalt; Road Oils; Paving Filler (a Pure Asphalt of Proper Consistency for Use without Admixture with Other Materials in Filling the Joints of Brick, Stone, or Wood Pavements); Paving Cement (a Pure Solid Asphalt of Proper Consistency for Mixture with Mineral Aggregate to Form an Asphaltic Wearing Surface); Tank-Bottom Cement (a Pure Asphalt Used for Lining and Coating the Bottom of Storage Tanks); Impregnating Compound (a Pure Solid Asphalt of Proper Consistency for Use in Impregnating Felt and Paper in the Manufacture of Asphaltic Roofing Papers); Weatherproofing Compound (a Pure Solid Asphalt of the Proper Melting Point and Consistency for Use in Protecting the Outer Covering of Conduits and Cables Against Heat, Cold, and Water); Felt Saturated with Asphalt, for Roofing Purposes; Rubber Roofing Stock (a Pure Solid Asphalt of Proper Consistency and Melting Point Used in Combination with Pure Reclaimed Rubber Used in the Manufacture of Rubber Roofing); Asphalt for Building Roads, and Felt Roofing.

Claims use since Apr. 7, 1902.

156,557. (CLASS 46. FOODS AND INGREDIENTS OF FOODS. HOWARD W. TOWNSEND, Richmond, Ind. Filed Nov. 28, 1919. Serial No. 125,410.

Abbott's
HYGRADE
BUTTER SCOTCH

Particular description of goods.—Candies.

Claims use since about July 1, 1912.

156,558. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) HARRY V. VEGHTE, New York, N. Y. Filed Jan. 18, 1922. Serial No. 158,101.

The Best

INNER TUBES

Particular description of goods.—Inner Tubes for Pneumatic Tires.
Claims use since July 10, 1915.

156,559. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEPH VINIKOW, Seattle, Wash. Filed Nov. 9, 1921. Serial No. 155,242.

PARISIAN

Particular description of goods.—Candies.
Claims use since Jan. 15, 1906.

156,560. (CLASS 12. CONSTRUCTION MATERIALS.) UNITED STATES GYPSUM COMPANY, Chicago, Ill. Filed Feb. 20, 1922. Serial No. 159,634.

QUALITY

Particular description of goods.—Calcined Gypsum, Plaster of Paris, and Keene's Cement.
Claims use since 1896.

156,561. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARRENTON CLAM CO., Warrenton, Oreg. Filed Sept. 28, 1921. Serial No. 153,491.

WARRENTON

Particular description of goods.—Canned Clams, Fish, and Berries.
Claims use since Mar. 1, 1921.

156,562. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WEAVER MANUFACTURING COMPANY, Springfield, Ill. Filed Dec. 4, 1920. Serial No. 140,624.

WEAVER

Particular description of goods.—Vehicle-Wheel Antiskid Chains and Attachments.
Claims use since January, 1911.

156,563. (CLASS 39. CLOTHING.) H. WOLF & SONS, Cincinnati, Ohio. Filed Aug. 12, 1921. Serial No. 151,740.

Particular description of goods.—Undershirts, Hosiery, Drawers, and Union Suits.
Claims use since Jan. 1, 1908.

156,564. (CLASS 38. PRINTS AND PUBLICATIONS.) WOMAN'S WORLD MAGAZINE CO., INC., Chicago, Ill. Filed Feb. 15, 1922. Serial No. 159,392.

"The Magazine of the Middle West"

Particular description of goods.—Monthly Magazine.
Claims use since October, 1919.

156,565. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE YOUNGSTOWN SHEET AND TUBE COMPANY, Youngstown, Ohio. Filed Oct. 24, 1921. Serial No. 154,543.

YOUNGSTOWN

Particular description of goods.—Iron and Steel Sheets, Sheet Roofing, Plates, Bars, Wire Hoops, and Wire Rods.
Claims use since 1913.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

JUNE 27, 1922.

156,566. FLAVORED EDIBLE LOZENGES, NOT INCLUDING CHOCOLATES AND CHOCOLATE CANDIES. STANLEY C. BIAS, Brooklyn, N. Y.
Filed December 4, 1919. Serial No. 125,561. PUBLISHED MARCH 14, 1922.

156,567. CANDY CONFECTIONS. STANLEY C. BIAS, Brooklyn, N. Y.
Filed December 4, 1919. Serial No. 125,562. PUBLISHED MARCH 14, 1922.

156,568. SHORTENING. DAVID A. BLANTON, St. Louis, Mo.
Filed September 10, 1921. Serial No. 152,779. PUBLISHED MARCH 7, 1922.

156,569. HAIR NETS. JOSEPH FLEISCHER, New York, N. Y.
Filed October 3, 1921. Serial No. 153,656. PUBLISHED FEBRUARY 28, 1922.

156,570. A CONCENTRATED PREPARATION OF MILK, COCOA, SUGAR, AND VANILLA. GALLOWAY-WEST COMPANY, Fond du Lac, Wis.
Filed October 20, 1921. Serial No. 154,363. PUBLISHED FEBRUARY 28, 1922.

156,571. FRESH AND COOKED CRABS AND SHRIMP, FRESH CLAMS AND OYSTERS. WALTER HASSLINGER, Baltimore, Md.
Filed December 8, 1920. Serial No. 140,796. PUBLISHED MAY 31, 1921.

156,572. DATES. THE HILLS BROTHERS COMPANY, New York, N. Y.
Filed September 14, 1921. Serial No. 152,921. PUBLISHED MARCH 7, 1922.

156,573. COTTON PIECE GOODS. THE JOHN P. KING MANUFACTURING CO., Augusta, Ga.
Filed November 20, 1920. Serial No. 139,893. PUBLISHED MARCH 21, 1922.

156,574. CANDIES. LANGLEY & MICHAELS CO., San Francisco, Calif.
Filed October 6, 1920. Serial No. 138,013. PUBLISHED FEBRUARY 7, 1922.

156,575. STERILIZED MILK PUT UP IN SEALED CONTAINERS. THE NATIONAL DAIRY CO., Toledo, Pioneer, and Oak Harbor, Ohio, and Ennis and Morenci, Mich.
Filed September 3, 1921. Serial No. 152,575. PUBLISHED FEBRUARY 28, 1922.

156,576. MEDICINES AND PHARMACEUTICAL PREPARATIONS FOR THE TREATMENT OF RHEUMATISM, GOUT, LUMBAGO, SCIATICA, PLEURISY, STIFFNESS IN JOINTS, AND FOR DISEASES ARISING FROM IMPURE BLOOD. WILLIAM SCHAPIRA, New York, N. Y.
Filed June 12, 1920. Serial No. 133,638. PUBLISHED JANUARY 24, 1922.

156,577. CANDIES. STARKEL CANDY COMPANY, Stillwater, Minn.
Filed April 18, 1921. Serial No. 146,338. PUBLISHED JANUARY 17, 1922.

156,578. RADIO TELEPHONE AND TELEGRAPH TRANSMITTERS AND RECEIVERS, ANTENNA OUTFITS, HEAD PHONES, LOUD SPEAKERS, TUNERS, AMPLIFIERS, AND DETECTORS. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa.
Filed October 5, 1921. Serial No. 153,779. PUBLISHED MARCH 14, 1922.

156,579. INCANDESCENT ELECTRIC LAMPS. WESTINGHOUSE LAMP COMPANY, Bloomfield, N. J.
Filed March 8, 1921. Serial No. 144,493. PUBLISHED MAY 9, 1922.

TRADE-MARK REGISTRATIONS RENEWED.

18,744. HYDRAULIC HOSE AND MACHINE BELTING. Registered December 30, 1890, to NEW JERSEY CAR SPRING AND RUBBER CO., Jersey City, N. J.; New Jersey Car Spring and Rubber Co., Inc., a Corporation of New York, assignee. Renewed December 30, 1920.

19,124. WIRE-STITCHING MACHINES. Registered March 3, 1891, to JAMES LECKIE MORRISON, New York, N. Y.; The J. L. Morrison Company, Inc., a Corporation of New York, assignee. Renewed March 3, 1921.

19,125. WIRE FOR STITCHING MACHINES. Registered March 3, 1891, to JAMES LECKIE MORRISON, New York, N. Y.; The J. L. Morrison Company, Inc., a Corporation of New York, assignee. Renewed March 3, 1921.

19,585. CIGARS. Registered May 26, 1891, to YNOCENCIO ALVAREZ, Habana, Cuba; Romeo y Julieta Cigar Factory, a Corporation of Cuba, assignee. Renewed May 26, 1921.

19,936. CIGARS. Registered July 28, 1891, to INOCENCIO ALVAREZ, Habana, Cuba; Romeo y Julieta Cigar Factory, a Corporation of Cuba, assignee. Renewed July 28, 1921.

19,947. CIGARS. Registered July 28, 1891, to INOCENCIO ALVAREZ, Habana, Cuba; Romeo y Julieta Cigar Factory, a Corporation of Cuba, assignee. Renewed July 28, 1921.

20,034. PIPE CANDY. Registered August 18, 1891, to CHASE & COMPANY CORPORATION, Boston, Mass.; New England Confectionery Company, assignee. Renewed August 18, 1921.

20,144. PIPE CANDY. Registered September 15, 1891, to CHASE & COMPANY CORPORATION, Boston, Mass.; New England Confectionery Company, assignee. Renewed September 15, 1921.

20,178. SMALL SUGARED STICKS OF CANDY. Registered September 29, 1891, to CHASE & COMPANY CORPORATION, Boston, Mass.; New England Confectionery Company, assignee. Renewed September 29, 1921.

20,581. BOOTS, SHOES, AND SLIPPERS. Registered January 12, 1892, to RICE & HUTCHINS, Boston, Mass.; Rice & Hutchins, Incorporated, a Corporation of Maine, assignee. Renewed January 12, 1922.

20,770. REFINED OIL. Registered February 23, 1892, to THE DEVOE MANUFACTURING CO., New York, N. Y.; Standard Oil Company of New York, a Corporation of New York, assignee. Renewed February 23, 1922.

20,850. WATERPROOF COLLARS AND CUFFS. Registered March 15, 1892, to ARLINGTON COLLAR AND CUFF CO., Arlington, N. J., and New York, N. Y.; E. I. du Pont de Nemours & Company, a Corporation of Delaware, assignee. Renewed March 15, 1922.

20,906. HOSIERY. Registered March 29, 1892, to JOHN SMEDLEY, Lea Mills, near Derby, England; John Smedley, Ltd., assignee. Renewed March 29, 1922.

20,923. HOOKS AND EYES FOR GARMENTS. Registered April 5, 1892, to RICHARDSON & DE LONG BROS., Philadelphia, Pa.; The De Long Hook and Eye Company, a Corporation of Pennsylvania, assignee. Renewed April 5, 1922.

20,943. PREPARATION OF STARCH FOR LAUNDRY OR FOOD PURPOSES. Registered April 5, 1892, to THE NATIONAL STARCH MANUFACTURING COMPANY, Covington, Ky.; New York, N. Y., and Cincinnati, Ohio. Corn Products Refining Company, a Corporation of New Jersey, assignee. Renewed April 5, 1922.

20,985. A SPECIFIC FOR CHOLERA INFANTUM. Registered April 19, 1892, to LATHAM ALBERT DAVIDSON, West Milford, W. Va.; The Ray-Vin Medicine Co., assignee. Renewed April 19, 1922.

21,030. OATS, WHEAT, AND BUCKWHEAT. Registered April 26, 1892, to JAMES BUTLER, New York, N. Y.; James Butler Grocery Company, a Corporation of New Jersey, assignee. Renewed April 26, 1922.

21,070. LEATHER OF ALL KINDS, SKINS UNWROUGHT AND WROUGHT, AND ARTICLES MADE OF LEATHER. Registered May 3, 1892, to J. MEREDITH-JONES & SONS, Wrexham, North Wales; J. Meredith-Jones & Sons Ltd., assignee. Renewed May 3, 1922.

21,076. HOOKS AND EYES. Registered May 3, 1892, to RICHARDSON & DE LONG BROS., Philadelphia, Pa.; The De Long Hook and Eye Company, a Corporation of Pennsylvania, assignee. Renewed May 3, 1922.

21,085. COSMETICS, SALVES, AND OINTMENTS. Registered May 10, 1892, to BLONDEAU ET CIE., New York, N. Y.; Vinolia Company Limited, a Corporation of the United Kingdom of Great Britain and Ireland, assignee. Renewed May 10, 1922.

21,106. COD-LIVER OIL AND PREPARATIONS OF COD-LIVER OIL. Registered May 10, 1892, to SOUTHALL BROS. & BARCLAY, Birmingham, England; Southall Bros. & Barclay Ltd., assignee. Renewed May 10, 1922.

21,202. A LIVER REGULATOR AND BLOOD PURIFIER. Registered May 24, 1892, to THE A. H. LEWIS MEDICINE CO., Bolivar, Mo.; The A. H. Lewis Medicine Company, a Corporation of Missouri, assignee. Renewed May 24, 1922.

21,233. A REMEDY FOR DISEASES OF THE UTERINE ORGANS AND SIMILAR AILMENTS. Registered May 31, 1892, to HENRY K. WAMPOLE & CO., Philadelphia, Pa.; Henry K. Wampole and Company, Incorporated, a Corporation of Pennsylvania, assignee. Renewed May 31, 1922.

21,258. TOMATO CATSUP. Registered June 7, 1892, to JAMES BUTLER, New York, N. Y.; James Butler Grocery Company, a Corporation of New Jersey, assignee. Renewed June 7, 1922.

21,344. FLOUR. Registered June 21, 1892, to JAMES BUTLER, New York, N. Y.; James Butler Grocery Company, a Corporation of New Jersey, assignee. Renewed June 21, 1922.

21,386. FIRE HOSE. Registered June 28, 1892, to F. REDDAWAY & CO., Manchester, England, and New York, N. Y.; F. Reddaway and Company, Limited, assignee. Renewed June 28, 1922.

21,425. SOAP AND OTHER CLEANING AND DETERGENT PREPARATIONS. Registered July 5, 1892, to THE J. T. ROBERTSON SOAP COMPANY, Manchester, Conn.; The Bon Ami Co., assignee. Renewed July 5, 1922.

21,516. A REMEDY FOR NERVOUS DISORDERS. Registered July 26, 1892, to WILLIAM H. GANNETT, Augusta, Me.; The Giant Oxie Company, Augusta, Me., assignee. Renewed July 26, 1922.

21,538. MACHINE BELTING. Registered August 2, 1892, to F. REDDAWAY & CO., Manchester, England, and New York, N. Y.; F. Reddaway and Company, Limited, assignee. Renewed August 2, 1922.

21,725. WATCHES AND JEWELRY. Registered September 6, 1892, to HAYDEN W. WHEELER & CO., New York, N. Y.; Hayden W. Wheeler & Co., Inc., assignee. Renewed September 6, 1922.

21,864. CHEMICAL PRODUCTS DERIVED FROM SUGAR. Registered October 11, 1892, to SCHERING & GLATZ, New York, N. Y.; Schering & Glatz, Inc., assignee. Renewed October 11, 1922.

21,940. WHEAT FLOUR. Registered November 8, 1892, to MINKOTA MILLING COMPANY, Duluth, Minn.; Duluth-Superior Milling Company, a Corporation of Minnesota, assignee. Renewed November 8, 1922.

LABELS

REGISTERED JUNE 27, 1922.

24,570.—*Title:* "ANTELOPE." (For Pears.) ANTELOPE VALLEY FRUIT GROWERS ASSOCIATION, Palmdale, Calif. Filed May 22, 1922.

24,571.—*Title:* "VERMICELLI." (For Boxes or Other Packages Containing Vermicelli.) ITALIA BIANCHI, Worcester, Mass., doing business as Italia Macaroni Company. Filed May 19, 1922.

24,572.—*Title:* "EXTRA SELECT DIAMOND BRAND." (For Boxes of Apples.) THE BOURK-DONALDSON-TAYLOR FRUIT COMPANY, Denver, Colo. Filed September 20, 1921.

24,573.—*Title:* "BYER'S GOLDEN ALMONDS." (For Packages Containing Almonds.) BYER & SONS, New York, N. Y. Filed March 28, 1922.

24,574.—*Title:* "BYER'S GOLDEN ALMONDS." (For Packages Containing Almonds.) BYER & SONS, New York, N. Y. Filed March 28, 1922.

24,575.—*Title:* "CALSO." (For Water.) THE CALSO COMPANY, Vallejo, Calif. Filed May 22, 1922.

24,576.—*Title:* "EASTER JOY." (For Candy.) CONSUMERS BISCUIT COMPANY, New Orleans, La. Filed May 22, 1922.

24,577.—*Title:* "EDGEMONT." (For Apples.) NAT M. CROSSLEY, Oakland, Calif. Filed May 22, 1922.

24,578.—*Title:* "DETROITER BRAND." (For Sliced Sugar-Cured Bacon.) DETROIT PACKING CO., Detroit, Mich. Filed May 22, 1922.

24,579.—*Title:* "WHITE EAGLE." (For Pile Salve.) JOSEPHINE GAMBLE, Oakland, Calif. Filed May 18, 1922.

24,580.—*Title:* "SAVE THE SURFACE." (For Paints and Varnishes.) HENRY A. GARDNER, Washington, D. C., doing business as Henry A. Gardner Paint Co. Filed May 18, 1922.

24,581.—*Title:* "VAPOCIDE." (For Insecticides, Fungicides, and Fumigating Materials.) THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio. Filed March 15, 1922.

24,582.—*Title:* "HAUGHTON." (For Lubricants.) THE HAUGHTON ELEVATOR & MACHINE CO., Toledo, Ohio. Filed November 25, 1921.

24,583.—*Title:* "'THE NUT FAMILY.'" (For Nuts.) PAUL S. HENDERSON, Denver, Colo., doing business as The House of Nuts. Filed May 12, 1922.

24,584.—*Title:* "'M-H' WENNERSTEN'S." (For Malt Extracts.) HENNING WENNERSTEN INCORPORATED, Chicago, Ill. Filed May 22, 1922.

24,585.—*Title:* "LUDEN'S SPEARMINT LEAVES." (For Candy Confections.) WM. H. LUDEN, INC., Reading, Pa. Filed May 15, 1922.

24,586.—*Title:* "MINER'S MINSTREL BLACK." (For a Chemical Preparation in Paste Form Suitable for Blackening the Skin.) EST. HENRY C. MINER, INC., New York, N. Y. Filed May 22, 1922.

24,587.—*Title:* "COLUMBIA HOT SHOT BATTERY." (For Electric Batteries.) NATIONAL CARBON COMPANY, INC., New York, N. Y. Filed May 20, 1922.

24,588.—*Title:* "VAGLO HAIR NET." (For Hair Nets.) NATIONAL COMMODITIES COMPANY, Wilmington, Del., and Philadelphia, Pa. Filed January 6, 1922.

24,589.—*Title:* "CURLOX OVERSIZE HAIR NET." (For Hair Nets.) NATIONAL COMMODITIES COMPANY, Wilmington, Del., and Philadelphia, Pa. Filed January 6, 1922.

24,590.—*Title:* "SWEET-NUT 'GOOBERS'." (For Salted Peanuts.) NATIONAL FOOD PRODUCTS CO., Chicago, Ill. Filed May 22, 1922.

24,591.—*Title:* "SWEET-NUT 'GOOBERS'." (For Salted Peanuts.) NATIONAL FOOD PRODUCTS CO., Chicago, Ill. Filed May 22, 1922.

24,592.—*Title:* "BUTTER MAID BREAD." (For Bread.) NEWARK PARAFFINE & PARCHMENT PAPER CO., Newark, N. J.; Columbus, Ohio, and New York, N. Y. Filed September 23, 1921.

24,593.—*Title:* "RITE-TONE TUBEPHONE." (For Musical Instruments.) THE PLAYATONE CO., New York, N. Y. Filed May 20, 1922.

24,594.—*Title:* "PUTT-PUTT GOLF GAME." (For a Game Apparatus.) THE PUTT-PUTT CO., Chicago, Ill. Filed March 24, 1922.

24,595.—*Title:* "EVERY-DAY." (For Bread.) SANIWAX PAPER CO., Kalamazoo, Mich. Filed May 15, 1922.

24,596.—*Title:* "SNOW WHITE." (For Bread.) SANIWAX PAPER CO., Kalamazoo, Mich. Filed May 15, 1922.

24,597.—*Title:* "DAISY." (For Bread.) SANIWAX PAPER CO., Kalamazoo, Mich. Filed May 15, 1922.

24,598.—*Title:* "SWEET HOME." (For Bread.) SANIWAX PAPER CO., Kalamazoo, Mich. Filed May 15, 1922.

24,599.—*Title:* "FORGET-ME-NOT." (For Bread.) SANIWAX PAPER CO., Kalamazoo, Mich. Filed May 15, 1922.

24,600.—*Title:* "WHITE LILY." (For Bread.) SANIWAX PAPER CO., Kalamazoo, Mich. Filed May 15, 1922.

24,601.—*Title:* "SATIN WHITE." (For Bread.) SANIWAX PAPER CO., Kalamazoo, Mich. Filed May 15, 1922.

24,602.—*Title:* "WHITE ROSE." (For Bread.) SANIWAX PAPER CO., Kalamazoo, Mich. Filed May 15, 1922.

24,603.—*Title:* "BONDED." (For Tomatoes.) SEE-MOON & COMPANY, Chicago, Ill. Filed May 22, 1922.

24,604.—*Title:* "14 IN 1." (For Tomatoes.) SEE-MOON & COMPANY, Chicago, Ill. Filed May 22, 1922.

24,605.—*Title:* "LITIT AUTOMOBILE ELECTRIC CIGAR LIGHTER." (For a Counter Card for Displaying Electric Cigar Lighters.) MILTON H. SHOENBERG, San Francisco, Calif., doing business as The Litit Co. Filed May 11, 1922.

24,606.—*Title:* "DERBY." (For Oranges.) L. K. SMALL COMPANY, Los Angeles, Calif. Filed March 23, 1922.

24,607.—*Title:* "SNOWS." (For Candy.) SNOWS CANDY CORPORATION, Chicago, Ill. Filed May 12, 1922.

24,608.—*Title:* "TWO WAY SERVICE." (For Table Salt.) GEORGE M. SULTENFUSS, Los Angeles, Calif., doing business as G. M. Sultenfuss & Co. Filed May 22, 1922.

24,609.—*Title:* "VIRDEN'S THRIFT." (For Meat Loaf.) VIRDEN PACKING COMPANY, South San Francisco, Calif. Filed May 22, 1922.

24,610.—*Title:* "VEGEX ALMONDS." (For a Vitamin Food Preparation.) VITAMIN FOOD CO. INC., New York, N. Y. Filed May 12, 1922.

24,611.—*Title:* "BIG JO." (For Bread.) WABASHA ROLLER MILL COMPANY, Wabasha, Minn. Filed March 30, 1922.

PRINTS

REGISTERED JUNE 27, 1922.

6,179.—*Title:* "HOPE HAMPTON HAT." (For Advertising Purposes for Hats.) BELAFFSKY BROTHERS, Chicago, Ill. Filed March 24, 1922.

6,180.—*Title:* "LOWELL METAL CEILING." (For Advertising Purposes for Metal Ceiling.) DAVID BORDELEAU, Lowell, Mass., doing business as The Lowell Metal Ceiling Company. Filed May 22, 1922.

6,181.—*Title:* "THE GREAT BIRD PUZZLES THE BROWNIES." (For Advertising Purposes for Breakfast Food.) BREAKFAST BROWNIES COMPANY, Helena, Mont., and Minneapolis, Minn. Filed May 18, 1922.

6,182.—*Title:* "JACK RABBIT ACTS AS A CAB." (For Advertising Purposes for Breakfast Food.) BREAKFAST BROWNIES COMPANY, Helena, Mont., and Minneapolis, Minn. Filed May 18, 1922.

6,183.—*Title:* "BREWER'S QUESTIONNAIRE." (For Advertising Purposes for Game Boards.) CHAS. A. BREWER & SONS, Chicago, Ill. Filed May 11, 1922.

6,184.—*Title:* "ORDER OF DIPPY DIPS." (For Advertising Purposes for Game Boards.) CHAS. A. BREWER & SONS, Chicago, Ill. Filed May 11, 1922.

6,185.—*Title:* "EATON'S HIGHLAND LINEN—STRANGE, ISN'T IT, DEAR, THAT YOU SHOULD ACCEPT JACK ON EATON'S HIGHLAND LINEN—THE SAME PAPER I USED WHEN I SAID 'YES' TO YOUR FATHER." (For Advertising Purposes for Eaton's Highland Linen.) EATON, CRANE & PIKE COMPANY, Pittsfield, Mass. Filed May 19, 1922.

6,186.—*Title:* "WHERE THE '57' BEGAN THE LITTLE HOUSE THAT WAS FLOATED DOWN THE RIVER." (For Advertising Purposes for Heinz 57 Varieties.) H. J. HEINZ CO., Pittsburgh, Pa. Filed May 19, 1922.

6,187.—*Title:* "YOUR BOY WILL EAT ALMOST ANYTHING THAT TASTES GOOD." (For Advertising Purposes for Heinz Pure Food Products.) H. J. HEINZ CO., Pittsburgh, Pa. Filed May 19, 1922.

6,188.—*Title:* "IDEAL CAN SPOUT." (For Advertising Purposes for a Detachable Spout for Containers.) IDEAL NOVELTY COMPANY, Baltimore, Md. Filed May 10, 1922.

6,189.—*Title:* "KANT-SKORE PISTONS WEIGH LIGHTEST—FIT TIGHTEST." (For Advertising Purposes for Pistons.) THE KANT-SKORE PISTON COMPANY, Cincinnati, Ohio. Filed May 11, 1922.

6,190.—*Title:* "BABY-BO MILK NUT." (For Advertising Purposes for a Milk Nut Bar.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed May 15, 1922.

6,191.—*Title:* "BETTER THAN JEWELS." (For Advertising Purposes for Palmolive Soap.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed May 11, 1922.

6,192.—*Title:* "TO ADVERTISE THE STAMFORD FOUNTAIN PEN." (For Advertising Purposes for Fountain Pens.) ALBERT A. SEVERIN, Chicago, Ill. Filed March 13, 1922.

6,193.—*Title:* "REDGLO." (For Advertising Purposes for Coke.) STEWART SAND COMPANY, Kansas City, Mo. Filed February 1, 1922.

6,194.—*Title:* "IT COSTS YOU 1/10 OF A CENT A CLEANSING." (For Advertising Purposes for Tooth Paste.) WRIGLEY PHARMACEUTICAL CO., Philadelphia, Pa. Filed May 19, 1922.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

DOULETT *v.* MUTHER (No. 1424). DOULETT *v.* GLINES (No. 1425). DEITSCH *v.* DOULETT (Nos. 1433, 1434, AND 1437). GLINES *v.* DOULETT (No. 1435). DEITSCH *v.* WALES (No. 1436). DEITSCH *v.* SMITH (Nos. 1438 AND 1439).

Decided January 3, 1922.

1. PATENTS—INTERFERENCE—DILIGENCE.

Where the senior party in an interference proceeding did nothing toward reducing the invention to practice for two years after his conception and after reduction by his rival, *Held* he was lacking in diligence.

2. SAME—SAME—REDUCTION TO PRACTICE.

The testimony in an interference proceeding considered and found that the junior party had successfully operated the machine embodying the issue in his employers' factory before the senior party's filing date.

3. SAME—SAME—CONCEALMENT.

Where the junior party installed such machine in his employers' factory for daily commercial use and it was open to the inspection of his coworkers, over whom he exercised no control, but who had been requested merely not to divulge the invention to any machine company, *Held* his request and conduct were reasonable and did not amount to concealment. (Following *Lederer* v. *Walker*, 39 App. D. C., 122; 182 O. G., 511; 1912, C. D., 560, and distinguishing *Mason* v. *Hepburn*, 13 App. D. C., 86; 84 O. G., 147; 1898, C. D., 510.)

Mr. L. G. Miller, *Mr. F. L. Emery*, *Mr. A. M. Holcombe*, and *Mr. Edward G. Curtis* for Doulett, Wales, and Smith.

Mr. F. J. V. Dakin for Muther.

Mr. F. J. V. Dakin, *Mr. J. H. Milans*, and *Mr. C. T. Milans* for Glines and Deitsch.

ROBB, *J.:*

These interferences involve a tool used in setting invisible eyelets in shoes. By stipulation the testimony taken in any one of the interferences may be used in any of the others.

We first will consider No. 1433. That interference involves five counts, of which the first reads as follows:

1. An eyelet setting device consisting of means for setting eyelets in one or more of the layers of material, comprising an upsetting device having a slightly projecting outwardly and upwardly curved setting shoulder combined with an anvil cooperating therewith, said upsetting device being arranged to spread and progressively turn the end of the eyelet over on said material between the said layers.

Each of the tribunals of the Patent Office found that while Deitsch conceived the invention in August of 1912, he did substantially nothing toward its reduction to practice prior to his filing date, about two years later, and hence that, as stated by the Assistant Commissioner, he "was utterly lacking in diligence." Each of the tribunals has satisfactorily discussed the evidence bearing upon this question, and we are content to adopt their conclusion without further consideration of that evidence.

Doulett, a stitching-room operator, was employed by Leonard & Barrows, shoe manufacturers of Middleboro, Massachusetts. He commenced his experiments in April of 1913 and by the 24th of September, following, had completed and successfully operated his Exhibit No. 10, which embodies the subject matter of the issue in this and the other interferences. From that time on the device was used exclusively in the Leonard & Barrows factory for the setting of invisible eyelets. Five or six other witnesses testified to having seen this machine in successful operation at about the time it was first installed. One of them, an employee of the Regal Shoe Company, was given a sample of the work done on the machine in his presence. The evidence so clearly shows, as found by the Patent Office, the machine thus to have been successfully operated, that we pass without more to the question whether Doulett's subsequent conduct amounted to such a concealment of the invention as to deprive him of the fruits thereof.

Doulett was practically without means and had been cautioned that if representatives of certain corporations should see his device they probably would copy it, to his injury. Therefore, although the employees of Leonard & Barrows and certain friends were allowed to become perfectly familiar with this invention, it was not shown to strangers for several months. In cross examination, Doulett was asked the following question:

At that time you didn't want anybody, outside of the operator and one or two friends, to see Exhibit W, No. 10 set, for fear they might copy it. Isn't that true?

His reply was,

The truth of the matter is, that I did not want any machine company to see it.

Early in 1914 Doulett machines were introudced in the Belfast, Maine, factory of Leonard & Bar-

rows and there openly used. It is apparent from the evidence that he appreciated the fact that he had made a valuable invention and had no idea of abandoning it. On August 1, 1914, he filed an application for patent but this application did not disclose the "contracted portion above the setting shoulder," which forms the subject matter of the counts in No. 1424, and it was not until November 13th, following, that Doulett filed another and continuing application covering this feature.

The Examiner of Interferences ruled that Doulett's conduct was justifiable and did not amount to a concealment of the invention within the rule announced in *Mason* v. *Hepburn* (13 App. D. C., 86; 84 O. G., 147), but rather came within the doctrine announced in *Oliver* v. *Felbel* (20 App., D. C., 255; 100 O. G., 2384), *Meyer* v. *Sarfert* (21 App. D. C., 26; 102 O. G., 1555), *Burson* v. *Vogel* (29 App. D. C., 388; 131 O. G., 942), *Gaisman* v. *Gillette* (36 App. D. C., 440; 165 O. G., 244), and *Lederer* v. *Walker* (39 App. D. C., 122; 182 O. G., 511). He accordingly awarded all the counts to Doulett. The Examiners in Chief and the Assistant Commissioner awarded the counts in interference No. 1433, the broad counts, to Doulett on the theory that, even though he concealed the invention, the concealment was terminated by the filing of his earlier application prior to the filing of the Deitsch application and before either the Glines or Muther patent issued, but they denied to Doulett the narrower claims on the ground of concealment and the finding that he was stirred into activity by the issuance of the two patents above mentioned.

We agree with the Examiner of Interferences that the conduct of Doulett was prompted solely by a desire to prevent the appropriation of his invention by what he conceived to be unfriendly interests, and not by any desire to conceal or suppress it. In the first place, the machine was in daily use in the factory where he was employed. One member of the firm was familiar with its use and, as already noted, some half a dozen witnesses, most of whom were peculiarly skilled in the art, were equally familiar with it. Knowledge of the invention therefore was sufficiently general to insure its preservation, and, because the character of the invention was such as to render its appropriation easy, the conduct of Doulett was consistent and reasonable, in the circumstances. Moreover, he was not operating this machine under conditions that permitted its control by him. On the contrary, the operation of the machine was for his employers and in the presence of witnesses over whom he had no real control. In *Jenner* v. *Bowen* (139 Fed., 556) Judge Lurton, later Mr. Justice Lurton of the Supreme Court, speaking of a use very similar to that of the Doulett machine in this case, said:

> That the number of persons who had an opportunity to see the machine in operation was limited, and included some who, by reason of youth and inexperience, were not likely to understand or be able to describe the mechanism, is of no great importance, in view of the fact that the inventor made and set up this machine for Bowen for the purpose of being commercially operated. Bowen understood its mechanism and its method of use, and was under no restriction as to the place or manner of its operation, and was under no obligation of secrecy.

[Vol. 299.

In the case at bar the witnesses who saw this machine were under no general injunction as to secrecy. They were merely requested not to divulge it to "any machine company," and we think this precaution was clearly within the inventor's rights.

In No. 1424, involving the narrower claims, the earliest date awarded Muther for conception was January of 1914. Inasmuch as Doulett, as early as September of 1913, had successfully reduced to practice and thereafter continued to operate in the manner already detailed a machine embodying the subject matter of this interference, we agree with the Examiner of Interferences that the award of priority should go to Doulett. In No. 1425, wherein the counts are limited as in No. 1424, since March 19, 1914, is the earliest date claimed by Glines for conception, it follows that priority also should be given Doulett, as found by the Examiner of Interferences. In each of the other interferences we accept the reasoning and conclusions of the Patent Office.

The decisions will be affirmed in Nos. 1433, 1434, 1435, 1436, 1437, 1438, and 1439, and reversed in Nos. 1424 and 1425.

Affirmed in Nos. 1433, 1434, 1435, 1436, 1437, 1438, and 1439.

Reversed in Nos. 1424 and 1425.

ADJUDICATED PATENTS.

(U. S. D. C. N. Y.) The Armstrong patent, No. 1,113,149, for wireless receiving system, *Held* not anticipated and infringed. *Armstrong* v. *De Forest Radio Telephone & Telegraph Co.*, 279 Fed. Rep., 445.

(U. S. C. C. A. N. Y.) The Weber patents, Nos. 743,206, claims 1 and 4, and 916,812, claim 1, for electric sockets, *Held* not infringed. *Weber Electric Co.* v. *W. R. Ostrander & Co.*, 279 Fed. Rep., 414.

(U. S. D. C. Mich.) The Perkins reissue patent, No. 13,436, for a wood glue and process of manufacture. *Held* valid and infringed. *Perkins Glue Co.* v. *Hood*, 279 Fed. Rep., 454; *Same* v. *Holland Furniture Co.*, 279 Fed. Rep., 457.

(U. S. D. C. N. Y.) The Perkins reissue patent, No. 13,436, for a wood glue and process of manufacture. *Held* valid and infringed. *Perkins Glue Co.* v. *Standard Furniture Co.*, 279 Fed. Rep., 458.

(U. S. D. C. N. Y.) The Johnson patents, Nos. 814,786 and 814,848, for talking-machine horns, *Held* valid and infringed. *Victor Talking Mach. Co.* v. *Carl Lindstrom Co.*, 279 Fed. Rep., 570.

(U. S. D. C. N. Y.) The Junghans patent, No. 911,401, for luminous compound for indicators, *Held* void for lack of invention. *American Radium Co.* v. *Hipp, Didisheim Co.*, 279 Fed. Rep., 601.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

767,905, D. McR. Livingston, Cooling and condensing apparatus, suit filed May 12, 1922, U. S. D. C., No. 4.]

E. D. N. Y., Doc. 1489, *D. McR. Livingston* v. *McCord Manufacturing Co., Inc.*

905,418, W. T. Gordon, Collar-fastening clip, suit filed May 31, 1922, U. S. D. C., N. D. Ill., Doc. 2750. *Comford Collar Clip Company* v. *N. Shure Company.*

912,318, H. R. McMahon, Reinforced-concrete pipe, suit filed May 25, 1922, U. S. D. C., E. D. N. Y., Doc. 1068, *Core Joint Concrete Pipe Co.* v. *Federal Concrete Pipe Co., Inc.*

958,478, W. E. Davey, Process of reinforcing trees, suit filed May 29, 1922, U. S. D. C., Mass., Doc. 1730 Eq., *Davey Tree Expert Co.* v. *The New England Landscape & Tree Preserver.* Final decree entered June 3, 1922.

958,478, W. E. Davey, Process of reinforcing trees, suit filed May 29, 1922, U. S. D. C., Mass., Doc. 1731 Eq., *Davey Tree Expert Co.* v. *E. J. Halloran;* same, same, same, suit filed June 2, 1922, U. S. D. C., N. D. N. Y., Doc. 363, *Davey Tree Expert Company* v. *M. Hennekey.*

962,202, W. S. Elliott, Twin strainer, suit filed May 31, 1922, U. S. D. C., E. D. Pa., Doc. 2549. *Elliott Company* v. *Andale Engineering Company and A. McPhee.*

1,004,643. (See 1,004,644.)

1,004,644, 1,004,643, H. R. Gilson, Armoring cable, suit filed May 11, 1922, U. S. D. C., E. D. N. Y., Doc. 1066, *National Metal Molding Co.* v. *Triangle Conduit Co., Inc.*

1,010,635, W. W. Kennedy, Process of protective color printing, suit filed September 26, 1921, U. S. D. C. Colo., Doc. 7231, *The Bankers Supply Company and W. W. Kennedy* v. *The Rocky Mountain Bank Note Co.* Application for injunction denied June 3, 1922.

1,018,502, A. Just and F. Hanaman, Incandescent bodies for electric lamps; 1,180,159, I. Langmuir, Incandescent electric lamps; suit filed May 4, 1922, U. S. D. C., E. D. N. Y., Doc. 1065. *General Electric Company* v. *Sare Electric Corporation.*

1,026,721, H. Thomas, Meat holders, suit filed May 6, 1922, U. S. D. C., N. D. Ill., Doc. 2721, *U. S. Slicing Machine Company* v. *A. J. Deere Company Inc.*

1,121,748, H. L. Miller, Carousel, suit filed April 27, 1922, U. S. D. C. Kans. (1st Div.), Doc. 507–N, *C. W. Parker* v. *J. Lazia and S. Crouse.*

1,133,991, J. R. Mayes and S. W. Eskew, Automobile license holders, suit filed March 30, 1922, U. S. D. C., W. D. Ky., Doc. 139, *Mayes and Eskew* v. *Stewart-Warner Speedometer Co.* Return of service on writ of subpœna quashed.

1,158,933, H. A. Kohman, C. Hoffman, and A. E. Blake, Manufacture of bread; 1,282,867, same, Bread-making composition, suit filed May 11, 1922, U. S. D. C., N. D. Ill., Doc. 2725, *Ward Baking Company* v. *Chapman & Smith.*

1,170,077, R. G. Lawry, Car-loading apparatus; 1,197,133, same, Shaker boom, suit filed May 5, 1922, U. S. D. C., N. D. Ill., Doc. 2720, *Roberts & Schaeffer Co.* v. *Krehbiel Company & Fred A. Krehbiel.*

1,180,159. (See 1,018,502.)

1,184,659, 1,193,819, 1,285,376, W. R. Ray, Oil burner, suit filed February 7, 1922, U. S. D. C., N. D. Calif. (2nd Div.), Doc. 689 Eq., *W. R. Ray and W. S. Ray Manufacturing Co.* v. *Bunting Iron Works.*

1,193,819. (See 1,184,659.)

1,194,658, J. R. Pagin, Combination automatic lamp, suit filed October 16, 1920, U. S. D. C., N. D. Ohio (E. Div.), Doc. 584, *Indiana Lamp Company et al.* v. *The Alvo Manufacturing Co.* Final decree issued June 3, 1922. Bill dismissed.

1,197,133. (See 1,170,077.)

1,251,150, A. J. Widmer, Ceiling ties, suit filed May 13, 1922, U. S. D. C., N. D. Ill., Doc. 2726, *The Goldsmith Metal Lath Co.* v. *P. J. Kalman Company.*

1,282,867. (See 1,158,933.)

1,285,376. (See 1,184,659.)

1,292,466, H. B. Hills, Deck construction, suit filed May 24, 1922, U. S. D. C., E. D. Pa., Doc. 2541, *Marine Decking & Supply Company* v. *Woodoleum Manufacturing Company.*

1,322,469, C. P. Ross, Conveyers, suit filed May 5, 1922, U. S. D. C., N. D. Ill., Doc. 2719, *Roberts & Schaeffer Co.* v. *Krehbiel Co., Webster Manufacturing Co., Fred A. Krehbiel.*

1,337,078, A. W. Kirchner, Running board and fender support for automobiles, suit filed April 8, 1922, U. S. D. C., W. D. Ky., Doc. 145, *The Dow Company* v. *O. W. Dishon Co.*

1,355,074, D. P. Cleveland, Process of removing surface finish, suit filed May 4, 1922, U. S. D. C., E. D. La., Doc. 16,959, *Universal Paint Remover & Motor Cleaning Co.* v. *I. Shoudy.* Decree granting preliminary injunction entered May 17, 1922.

1,372,460, J. Q. Sherman, Autographic registers, suit filed June 5, 1922, U. S. D. C., E. D. Pa., Doc. 2551. *The Standard Register Company* v. *The Sherwin Williams Company.*

1,395,732, R. Roadhouse, Method of enameling ware, suit filed May 2, 1922, U. S. D. C., N. D. Ill., Doc. 2706. *R. Roadhouse and T. E. McCaig* v. *Chicago Vitreous Enamel Products Company.*

1,413,467, R. A. Gaertner, Power net rollers, suit filed June 5, 1922, U. S. D. C., S. D. Calif., Doc. F 124, *R. A. Gaertner* v. *P. Dragich.*

Re. 14,049, J. G. Tufford, Resilient heels, suit filed March 14, 1921, U. S. C. C. A., Doc. 1505, *The I. T. S. Rubber Company* v. *Essex Rubber Company.* Decree of District court reversed and case remanded to that court for further proceedings.

Re. 15,147, E. T. Brigham, Towel racks, suit filed June 9, 1922, U. S. D. C., Mo., Doc. 365, *J. Rousso* v. *New Ideal Laundry Company.*

T. M. 30,943, 63,805. Cream of Wheat Co., Trademark for breakfast food, suit filed May 31, 1922, U. S. D. C., N. D. Ill., Doc. 2751, *Cream of Wheat Co.* v. *Central Waxed Paper Co.*

T. M. 63,805. (See T. M. 30,943.)

T. M. 149,996. D. E. McMillan & Bro., Trade-mark for coal, suit filed May 18, 1922, U. S. D. C., N. D. Ill., Doc. 2728, *D. E. McMillan & Bro.* v. *McElvain-Hoy Coal Co.*

Adverse Decisions in Interference.

PATENT NO. 1,274,958.

On April 27, 1922, a decision was rendered that Cornelis F. M. Van Berkel was not the first inventor of the subject-matter covered by claims 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10 of his Patent No. 1,274,958, subject, "Holder for slicing machines," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,288,837.

On April 27, 1922, a decision was rendered that Henry P. Clausen was not the first inventor of the subject ter covered by claims 8, 9, 10, 11, 12, 15, 16, 17, and 18 of his Patent No. 1,288,837, subject, "Telephone-exchange system," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,297,100.

On April 27, 1922, a decision was rendered that Henry P. Clausen was not the first inventor of the subject matter covered by claims 1, 3, 4, 5, and 6 of his Patent No. 1,297,100, subject, "Telephone-exchange system," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,384,913.

On May 26, 1922, a decision was rendered that Olson and Trbojevich were not the first inventors of the subject-matter covered by claims 11, 12, 13, and 14 of their Patent No. 1,384,913, subject, "Screw cutting and relieving machine," and no appeal having been taken within the time allowed such decision has become final.

Disclaimer.

1,109,950.—*August Andrén*, Brooklyn, N. Y. SIGNALING APPARATUS. Patent dated September 8, 1914. Disclaimer filed June 21, 1922, by the assignee, *Elevator Supplies Company, Inc.*

Enters this disclaimer:

"(1) as to claim 14, of every 'normally open switch' now called for in the combination of elements therein claimed, except such as is controllable indirectly by the car operator and closed automatically through operation of some car mechanism which is operated in the routine running of the car, and

"(2) as to claims 2 to 5 inclusive and 9 to 12 inclusive, every means or mechanism therein specified as 'governed by' stopping the car except such as, after it has operated and caused the cancellation for one floor, requires, before it can again accomplish the signal-cancelling function for another floor, some action of mechanism which takes place in consequence of the act of stopping the car."

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 6TH DAY OF JUNE, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Achtmeyer, William, Middletown, Conn. Friction composition and making same. No. 1,418,607; June 6.
Acken, Wiley S., Jersey City, N. J., assignor to Robins Conveying Belt Company. Screening apparatus. No. 1,418,899; June 6.
Adam, Matthew A. (See Legg, David A., assignor.)
Adams, Frederick, Bradwell, England. Tramway rail having removable tread. No. 1,418,509; June 6.
Adams, Walter L. (See Pflueger, C. T., and Adams.)
Adamson, William. (See Dufresne, D. E., and Adamson.)
Adt, Albert W., assignor to John B. Adt Company, Baltimore, Md. Tobacco-cutting machine. No. 1,419,094; June 6.
Adt, John B., Company. (See Adt, Albert W., assignor.)
Ainsworth, Harry G., Kentland, Ind. Means for operating doors. No. 1,418,420; June 6.
Akers, Blessie E., Thrift, Tex. Baby-net frame. No. 1,416,608; June 6.
Alaska Freezer Company. (See Norcross, Crandall U., assignor.)
Album, Adolph Y. S., Chicago, Ill. Bottle stopper. No. 1,419,003; June 6.
Aldridge, W. Herbert, Portland, Oreg. Water heater. No. 1,418,421; June 6.
Alexander Construction Company, The. (See Alexander, Orion, assignor.)
Alexander, Donald M., Cleveland, Ohio. Locking and unlocking mechanism. No. 1,419,095; June 6.
Alexander, Orion, assignor to The Alexander Construction Company, Cleveland, Ohio. Moving buildings from one site to another. No. 1,418,510; June 6.
Alexander, Philip, Jr., Churchville, N. Y. Toy binding machine. No. 1,419,096; June 6.
Allen, Charles C., Indianola, Nebr. Gauge. No. 1,419,004; June 6.
Allis-Chalmers Manufacturing Company. (See Kane, John J., assignor.)
Allis-Chalmers Manufacturing Company. (See Patitz, Johann F. M., assignor.)
Allis-Chalmers Manufacturing Company. (See Williamson, Robert B., assignor.)
Altwegg, Jean, and Joanny Landrivon, Lyon, France, assignors to Societe Chimique des Usines du Rhone (Anciennement Gilliard P. Monnet et Cartier), Paris, France. Process for the manufacture of new mono and di-β-oxyethyl-amino-benzoic esters. No. 1,418,900; June 6.
Alvey, William S., Philadelphia, Pa. Nursing bottle. No. 1,418,268; June 6.
American Chain Company. (See Reyburn, John R., assignor.)
American Laundry Machinery Company, The. (See Benjamin, Dana H., assignor.)
American Laundry Machinery Company, The. (See Miller, Ernest W., assignor.)
American Steel Foundries. (See Floyd, George G., assignor.)
American Steel Foundries. (See Lamont, John A., assignor.)
American Steel Foundries. (See Peycke, Armand H., assignor.)
American Telephone and Telegraph Company. (See Carson, John R., assignor.)
American Tobacco Company, The. (See Goldsmith Herman, assignor.)
Anders, Paul, and P. M. Ginnings, Urbana, Ill. Distilling apparatus. No. 1,418,691; June 6.
Andrews, Frank W., assignor, by mesne assignments, to The Superior Refrigerating Company, Wapakoneta, Ohio. Refrigerating apparatus. No. 1,419,097; June 6.
Angier, Edward H. (See Harrison, Mary R., assignor.)
Angus, Donald J., Indianapolis, Ind. Volt-ampere meter. (Reissue.) No. 15,370; June 6.
Arent, Arthur, assignor to Arthur Arent Laboratories, Inc., Des Moines, Iowa. Protectively treating wood and the like. No. 1,418,609; June 6.
Arent, Arthur, assignor to Arthur Arent Laboratories, Inc., Des Moines, Iowa. Protectively treating materials. No. 1,418,610; June 6.
Arent, Arthur, Laboratories, Inc. (See Arent, Arthur, assignor.)
Arneson, Oscar. (See Diers, J. H., and Arneson.)
Arnold, Harold A. (See Huff, Bert M., assignor.)
Arnot, Alexander R., Los Angeles, Calif. Shock absorber. No. 1,419,098; June 6.
Asplund, Charles F., Minneapolis, Minn. Centrifugal clutch. No. 1,418,350; June 6.
Atkinson, Ralph W. (See Fisher, H. W., and Atkinson.)
Atwater Kent Manufacturing Company. (See Richter, William H., assignor.)
Atwood, Leonard, Boston, Mass. Internal-combustion engine. No. 1,418,351; June 6.
Auermiller, John, Chicago, Ill. Window awning. No. 1,418,860; June 6.
Austin, Edgar E., Portland, Me. Currency series. No. 1,418,611; June 6.
Auto Lift and Carrier Company. (See McCarthy, Thomas J., assignor.)
Automatic Sliding Trolley Company. (See Moore, Giles S. and O., assignors.)
Automatic Straight Air Brake Company. (See Neal, Spencer G., assignor.)
Autosales Corporation. (See Grover, Albert D., assignor.)
Axen, John L., Oak Park, Ill., assignor to National Gauge & Equipment Company, La Crosse, Wis. Assembling electrical measuring instruments. No. 1,419,099; June 6.
Ayala, John M., Honolulu, Hawaii. Bread-slicing machine. No. 1,418,511; June 6.
Ayotte, Joseph R., Chicago, Ill., assignor to Code Manufacturing Company. Rotatable hand tool. No. 1,419,100; June 6.
B. S. A. Guns, Limited. (See Norman, George, assignor.)
Bach, Emmann, and J. Stuart, Woonsocket, R. I. Safety-razor-blade holder. No. 1,418,352; June 6.
Bache-Wiig, Carl, and J. Bache-Wiig, Portland, Me.; said J. Bache-Wiig assignor of eighty per cent of his interest to said C. Bache-Wiig. Preparing fibrous pulp material. No. 1,418,353; June 6.
Bache-Wiig, John. (See Bache-Wiig, Carl and J.)
Bachofen, Theodor, West Hoboken, N. J. Woven-in knife for pile-fabric looms. No. 1,418,512; June 6.
Bacon, Frank W., Los Angeles, Calif. Directory. No. 1,418,269; June 6.
Bailey, Alfred A., Spokane, Wash. Manifold. No. 1,418,270; June 6.
Bailey, Cyrus, Chicago, Ill. Carpenter's plane. No. 1,418,513; June 6.
Bailey, Lewis, Hayden, Ariz., assignor to Minerals Separation North American Corporation, New York, N. Y. Concentration of ores. No. 1,418,514; June 6.
Baker, Newton D., Secretary of War, trustee. (See Swan, John H., assignor.)
Baldwin, Benjamin L., Kansas City, Mo. Automatic car coupling. No. 1,418,861; June 6.
Ball, George H., assignor, by mesne assignments, to The Marlin Firearms Corporation, New Haven, Conn. Firearm. No. 1,418,862; June 6.
Ballou, Harold G., Los Angeles, Calif. Buffing machine. No. 1,418,863; June 6.
Balster, Frederick W., Wilmington, Del. Burner. No. 1,418,422; June 6.
Bangle, Paul M., San Dimas, Calif. Earth-handling apparatus for use in irrigation. No. 1,419,101; June 6.
Bankers Electric Protective Association. (See Crawford, Franklin E., assignor.)
Bannister, Loring H., Toledo, Ohio. Bottle-cooling chest. No. 1,418,692; June 6.
Baquie, Hubert C., North Carlton, near Melbourne, Victoria, Australia. Automatically-operating pneumatic wheel for motor and other vehicles. No. 1,418,515; June 6.
Barnes, Edwin, Sheffield, England. Spring. No. 1,419,005; June 6.
Barnett, Augusta, and M. I. Sternberg, Brooklyn, N. Y. Waterproof covering for hats. No. 1,418,354; June 6.
Barr, John H., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. No. 1,418,901; June 6.
Barrett Company, The. (See Binkley, Kenneth L., assignor.)
Barrett Company, The. (See Schulze, John F. W., assignor.)
Barrett Company, The. (See Weiss, John M., assignor.)
Barrett, Hollis J., La Grange, Ill. Chair or seat. No. 1,419,006; June 6.
Barrett, Kenneth T., Pittsfield, Mass. Clothesrack. No. 1,419,007; June 6.
Barrow, Thaddeus J., Riverside, Calif. Under-tree plow. No. 1,419,102; June 6.
Barry, Redmond F., Republic, Wash. Saw gummer. No. 1,419,103; June 6.
Bash Oil and Refining Company. (See Hoge, Daniel W., assignor.)

Bassick Company, The. (See Herold, Walter F., assignor.)
Bauer, Anna, Union, N. J. Rope grip. No. 1,418,902; June 6.
Bauer, Hans F. (See Lenders, A. W. H., and Bauer.)
Bauer, Perry S., Chicago, Ill. Automatic steering device for motor vehicles. No. 1,418,693; June 6.
Baum, Gustav, assignor to the Firm Chemische Fabrik Weissenstein Gesellschaft m. b. H., Carinthia, Austria. Distilling sulphuric acid. No. 1,419,008; June 6.
Bayne, George G., and J. C. Hoehnen, Bushnell, Ill. Trough. No. 1,418,516; June 6.
Beard, Jerry L., assignor of one-half to R. J. Flood, Tulsa, Okla. Oil saver for oil-producing wells. No. 1,418,612; June 6.
Beatty, Wallace A., New York, N. Y. Treatment of rubber. No. 1,418,271; June 6.
Becker, John F., Toledo, Ohio. Separable fastener. No. 1,419,104; June 6.
Bedford, Clayton W., and R. L. Sibley, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Vulcanizing caoutchouc. No. 1,418,771; June 6.
Bedford, Clayton W., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Vulcanizing caoutchouc. No. 1,418,772; June 6.
Beemer, Jasper A., Astoria, Oreg. Signal for motor-driven vehicles. No. 1,419,105; June 6.
Beisel, William J., Port Richmond, N. Y. Spring wheel. (Reissue.) No. 15,371; June 6.
Bell, Earl F., Indianapolis, Ind. Quench rotary spark gap. No. 1,418,518; June 6.
Bell, Harvey W., Yonkers, and H. L. Hoyt, Jr., Great Neck, N. Y. Friction-drive mechanism. No. 1,418,355; June 6.
Bell, John E., Brooklyn, assignor to Power Specialty Company, New York, N. Y. Oil heater for topping stills. No. 1,418,272; June 6.
Bell, Thos. D. (See Perry, Ira D., assignor.)
Bement, Nahum C., Rockford, Ill. Axle. No. 1,418,613; June 6.
Benckstein, Charles H., Vinton, La. Leak-proof lower or standing valve. No. 1,418,423; June 6.
Beneke & Kropf Manufacturing Company. (See Rayfield, Charles L., assignor.)
Benjamin, Bert R., Oak Park, Ill., and G. M. Merwin, Berwyn, Ill., assignors to International Harvester Company. Snapping rolls for huskers and shredders. No. 1,418,424; June 6.
Benjamin, Dana H., Cleveland Heights, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Apparatus for handling starch mixture. No. 1,418,273; June 6.
Benjamin, Dana H., Cleveland Heights, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Preparing starch. No. 1,418,274; June 6.
Benjamin, Dana H., Cleveland Heights, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Handling starch mixture. No. 1,418,275; June 6.
Bennett, Russell H., Tucson, Ariz. Rail pantograph. No. 1,418,614; June 6.
Benson, William S., Newark, N. J. Electromagnetic wave bath. No. 1,418,903; June 6.
Bentley, Elizabeth, executrix. (See Bentley, Manton T.)
Bentley, Manton T., deceased, Palmyra, N. J., E. Bentley, executrix. Tobacco-pipe cleaner. No. 1,419,106; June 6.
Berkeley, Ida M., et al., administrators. (See Berkeley, Wales O.)
Berkeley, Wales O., deceased, Potsdam, by I. M. Berkeley, Potsdam, and T. T. Hill, Carmel, N. Y., administrators. Repository. No. 1,419,107; June 6.
Bernardi, Alfredo, Sandoval, Ill. Automatic railway-car coupling. No. 1,419,009; June 6.
Bettenhausen, Charles C., Princeton, Nebr. Crank-pin sleeve. No. 1,418,519; June 6.
Betts, William H., St. Louis, Mo. Sole protector. No. 1,418,425; June 6.
Betz, Eugene, Newark, assignor of one-half to H. Kopp, Orange, N. J. Razor-blade holder. No. 1,418,694; June 6.
Bidaud, Florentin, Lyon, France, assignor to Societe Chimique des Usines du Rhone (anciennement Gilliard P. Monnett et Cartier), Paris, France. Process for the manufacture of aromatic oxyaldehyde. No. 1,418,904; June 6.
Billings, Cecil M., Brooklyn, N. Y. Axle construction. No. 1,418,276; June 6.
Binkley, Kenneth L., New York, N. Y., assignor to The Barrett Company. Plastic composition. No. 1,418,905; June 6.
Birgh, John B., Chicago, Ill. Roller bearing. No. 1,418,277; June 6.
Bitting, John E., Los Angeles, Calif. Post preserver. No. 1,419,108; June 6.
Blackburn, Jasper, Webster Groves, assignor to The Blackburn Patent Steering Wheel Company, St. Louis, Mo. Controlling device for automobiles. No. 1,418,278; June 6.
Blackburn Patent Steering Wheel Company, The. (See Blackburn, Jasper, assignor.)
Blades, Alvin C., assignor of one-third to C. E. Collins and one-third to C. C. Ward, Crisfield, Md. Signal lamp. No. 1,418,615; June 6.
Blanc, Gian A., and F. Jourdan, Rome, Italy. Treatment of leucitic rocks for the purpose of rendering potassium compounds available. No. 1,418,356; June 6.
Boileau, Walter K., Baltimore, Md., assignor to Pittsburgh Oil Refining Corporation. Treating brake and transmission bands. No. 1,418,695; June 6.
Boisset, Charles L., New Orleans, La. Variable-stroke hydraulic pump. No. 1,418,616; June 6.
Bolton, Edward R., and E. J. Lush, London, assignors to Technical Research Works Limited, London, England. Neutralization of oils and fats. No. 1,419,109; June 6.
Booth Electric Furnace Co., The. (See Booth, William K., assignor.)
Booth, Frank, Safford, Ariz. Combination tire rack and changer. No. 1,418,279; June 6.
Booth, William K., assignor to The Booth Electric Furnace Co., Chicago, Ill. Furnace. No. 1,418,773; June 6.
Booty, Stanley S., Sutton, England. Container for powder. No. 1,418,520; June 6.
Borden Company, The. (See Nonneman, Ira W., assignor.)
Bordigion, John, assignor to Eastman Kodak Company, Rochester, N. Y. Photographic camera. No. 1,418,280; June 6.
Borgen, Harold, Urmston, and G. W. Wadsworth, Flixton, England. Apparatus for making margarine compounds and other substances. No. 1,418,357; June 6.
Born, Julius M., St. Paul, Minn. Luggage carrier. No. 1,418,426; June 6.
Bornstein, Esther L., Cambridge, Mass. Play suit. No. 1,418,281; June 6.
Bösebeck, Emil. (See Türck, E., and Bösebeck.)
Bostrom, Axel G. (See Holmes, G. E., and Bostrom.)
Bostrom, John M. (See Holmes, G. E., and Bostrom.)
Bosworth, George P., assignor to Hemphill Company, Central Falls, R. I. Fashioned hosiery and making the same. No. 1,418,617; June 6.
Bowen, George W., Bridgeton, N. J. Measuring rule. No. 1,418,358; June 6.
Bowers, David, executor. (See Wooten, C. T.)
Bowers, Floyd O. (See Philo, C. M., and Bowers.)
Boyle, Homer L., Lansing, Mich. Aeroplane. No. 1,418,522; June 6.
Brandon, Theodore C., Fallon, Nev. Power transmission. No. 1,418,517; June 7.
Bratteig, Gustav. (See Bratteig, Knut and G.)
Bratteig, Knut and G., Marshalltown, Iowa. Hayrack. No. 1,418,774; June 6.
Brennan, Joseph B., Lexington, Mass. Machine for and making cord tire stock. No. 1,418,906; June 6
Briconnier, Zepher J., assignor of one-half to M. Cohn, San Francisco, Calif. Blotter attachment for fountain pens. No. 1,418,696; June 6.
Briggs & Stratton Company. (See Jacobi, Edward N., assignor.)
Brinkman, Louis H., Glenridge, assignor, by mesne assignments, to General Seamless Tube Company, Bloomfield, N. J. Tube and rod tapering. No. 1,418,697; June 6.
Broadley, Joseph R., London, England. Apparatus for grinding, classifying, and decanting ores. No. 1,418,523; June 6.
Bronson, Adelbert E., Cleveland, Ohio. Dust-cap construction. No. 1,418,524; June 6
Brower, Willis A., Adrian, assignor to Michigan Mutual Liability Company, Detroit, Mich. Safety attachment for punch presses. No. 1,418,525; June 6.
Brown, Amanda C., Brooklyn, N. Y. Protective garment. No. 1,418,526; June 6.
Brown, Charlie E., Findlay, Ohio. Roundabout. No. 1,418,775; June 6.
Brown, Leon C. (See Haviland, C. M., and Brown.)
Brown, Sidney G., North Acton, England. Repeater for gyrocompasses. No. 1,419,010; June 6.
Bruder, Albert A., Holly, Mich. Furnace. No. 1,419,011; June 6.
Brun, Joseph, Chaux de Fond, Switzerland, assignor of one-half to C. F. Depollier, Brooklyn, N. Y. Watch, etc. No. 1,418,427; June 6.
Brunell, Joseph, Brooklyn, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Method for use in the manufacture of shoes. No. 1,418,359; June 6.
Brunett, Dewitt A., Minneapolis, Minn. Hot-air furnace. (Reissue.) No. 15,372; June 6.
Brunner, Alexander, Newark, N. J. Oil gauge for internal-combustion engines. No. 1,419,012; June 6.
Buckingham, James F., Coventry, England. Cam-shaft mounting for internal-combustion engines. No. 1,418,282; June 6.
Budd Wheel Company. (See Schenck, C., and Fine, assignors.)
Bullock, Percy W. (See Handley, George, assignor.)
Burgess, Harry A., assignor to Romine Manufacturing Co., Goodland, Ind. Portable gate. No. 1,419,013; June 6.
Burgess, Louis, Bayonne, N. J. Production of beryllium compounds. No. 1,418,527; June 6.
Burgess, Louis, Bayonne, N. J. Production of zirconium compounds. No. 1,418,528; June 6.
Burnell, Louis R., Saginaw, Mich. Combination tool. No. 1,418,529; June 6.
Burnham, Clifford L., Chicago, Ill. Indicating and manhole-locking safety valve for tank cars. No. 1,418,530; June 6.
Burrell, D. H., & Co. (See Feldmeier, H., and Dalzell, assignors.)
Burtnett, Everett R., assignor to G. J. Ziegler, Los Angeles, Calif. Power-lift attachment for tractors. No. 1,419,014; June 6.

Bushnell, John B., Los Angeles, Calif. Direction indicator for vehicles. No. 1,418,531; June 6.
Butler, J. W., Paper Company. (See Lysen, John E., assignor.)
Butt, Charles A., Atlanta, Ga. Conditioning fertilizer. No. 1,418,618; June 6.
Buttrick, Sidney H., Melrose, Mass. Flexible bed-cover-retaining device. No. 1,419,015; June 6.
Cain, Charles, Washington Township, Owen County, Ind. Animal trap. No. 1,418,864; June 6.
Cain, Clarence E., Wilmer, Tex. Automatic clutch release. No. 1,418,619; June 6.
Caldwell, James R., assignor to The Seamless Rubber Company, Inc., New Haven, Conn. Recoil pad. No. 1,418,532; June 6.
Cameron, John E., Charlottetown, Prince Edward Island, Canada. Orthopedic device or apparatus. No. 1,418,283; June 6.
Cameron, Monroe A., Broadview, Mont. Eccentric steering device for motor vehicles. No. 1,418,698; June 6.
Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Door-operating mechanism. No. 1,418,907; June 6.
Capirosso, Angelo, Rossiter, Pa. Anchor hook. No. 1,419,016; June 6.
Caretto, Louis, Baldwin, N. Y. Adjustable screen. No. 1,418,284; June 6.
Carlozzo, Anthony, Yonkers, N. Y. Heel for shoes. No. 1,418,428; June 6.
Carpenter, Francis W., assignor to Fosston-Carpenter Company, St. Paul, Minn. Driving mechanism for washing machines. No. 1,418,429; June 6.
Carrico, William G., Washington, D. C. Air-inlet-control means for furnaces. No. 1,418,776; June 6.
Carroll, John D. (See Tregoe, B. B., and Carroll.)
Carson, John R., New York, N. Y., assignor to American Telephone and Telegraph Company. Translating circuit. No. 1,418,285; June 6.
Carter, George W., and R. B. Hayden, San Angelo, Tex. Casing-pulling device. No. 1,418,533; June 6.
Cary Manufacturing Co. (See Cary, Spencer C., assignor.)
Cary, Spencer C., Brooklyn, assignor to Cary Manufacturing Co., New York, N. Y. Wire package binder. No. 1,419,110; June 6.
Case, J. I. Threshing Machine Company. (See MacGregor, W. F., and Krause, assignors.)
Catalpo, Limited. (See Schidrowitz, Philip, assignor.)
Cathcart, William A. P., assignor of one-half to K. C. Hoon, Honolulu, Hawaii. Hairpin. No. 1,419,017; June 6.
Chambers, Lee, Bastrop, Tex. Shoe-shining machine. No. 1,419,018; June 6.
Chapman, Earle E., Los Angeles, Calif., assignor to Miller-Chapman Company. Side chain shackle for automobile wheels. No. 1,418,534; June 6
Chapman, William H., assignor to Norton Company, Worcester, Mass. Terrazzo safety tread. No. 1,419,019; June 6.
Chase, Carl C., assignor to Motor Recording Corporation, New York, N. Y. Abstract of title for motor vehicles. No. 1,419,020; June 6.
Chemische Fabrik Weissenstein Gesellschaft m. b. H. (See Baum, Gustav, assignor.)
Christensen Machine Co. (See Christensen, Martin, assignor.)
Christensen, Martin, assignor to Christensen Machine Co., Racine, Wis. Signature-conveyer support. No. 1,418,865; June 6.
Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. No. 1,418,360; June 6.
Cicerchi, Angelo G., Hillsville, Pa. Earring. No. 1,419,021; June 6.
Cincinnati Bickford Tool Company, The. (See Klausmeyer, David C., assignor.)
Cincinnati Milling Machine Company, The. (See Einstein, Sol, assignor.)
Clare, Hermann, Berne, Switzerland. Envelope. No. 1,418,620; June 6.
Clark, Cadle, Harmon Corporation. (See Couch, Forrest J., assignor.)
Clark, James A., Thorndale, Tex. Rake. No. 1,419,022; June 6.
Clark, Lincoln, Pasadena, Calif. Apparatus for treating petroleum. No. 1,418,621; June 6.
Clausing, Louis F., Burlingame, Calif. Heater. No. 1,418,361; June 6.
Clegg, James W., Oldham, England. Combing machine. No. 1,418,908; June 6.
Cleveland Chain and Manufacturing Company, The. (See Jones, Henry L., assignor.)
Clifton, Francis R., Omaha, Nebr. Tool. No. 1,419,023; June 6.
Cobb, Henry Z., New York, N. Y., assignor to New York Belting & Packing Company. Tube-making machine. No. 1,418,535; June 6.
Coblentz, William W., Washington, D. C. Electrical resistance. No. 1,418,362; June 6.
Cockburn, David, Cardonald, near Glasgow, and E. McDonald, Paisley, Scotland. Reversible propeller. No. 1,418,622; June 6.
Code Manufacturing Company. (See Ayotte, Joseph R., assignor.)
Coe, John P., Hastings-on-Hudson, N. Y., assignor to Morgan & Wright. Tire casing and supporting means therefor. No. 1,418,623; June 6.
Coggeshall, George W., and T. M. Rector, assignors to The Institute of Industrial Research, Inc., Washington, D. C. Recovery of volatile solvents. No. 1,418,363; June 6.
Cohn, Max. (See Briconnier, Zepher J., assignor.)
Cold Light Manufacturing Company, The. (See Erdle, Reiner W., assignor.)
Coldwell, Joseph, Newmarket, N. H., assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,418,536; June 6.
Cole, Warren W., Portland, Me. Air deflector for automobiles. No. 1,418,430; June 6.
Collins, C. E., et al. (See Blades, Alvin C., assignor.)
Collins, Cornelius, Burlingame, Calif. Fastening element. No. 1,418,699; June 6.
Commonwealth Edison Company. (See Smith, Peter J., assignor.)
Condensite Company of America. (See Kendall, Donald S., assignor.)
Connér Magneto & Ignition, Limited. (See Puckette, Charles C., assignor.)
Conroy, Peter J., Scranton, Pa. Rail-securing instrumentality. No. 1,418,286; June 6.
Cook, James L., Springfield, Ill. Steering-system lock. No. 1,419,024; June 6.
Cook, William E., Minneapolis, Minn. Trailer hitch for harvesters and the like. No. 1,418,700; June 6.
Cooper, Charles W. (See Morris, Pratt C., assignor.)
Cooper, James F., Hannibal, Mo. Collapsible automobile bed. No. 1,418,287; June 6
Corcoran, Cornelius B., assignor to Underwood Typewriter Company, New York, N. Y. Typewriter support. No. 1,418,701; June 6.
Corcoran, Thomas J. (See Kuen, Eugene A., assignor.)
Cossitt, Malcolm L., Alameda, Calif, assignor to Manifold Impressions Corporation, Carson City, Nev. Ribbon attachment especially adapted for typewriters. No. 1,418,624; June 6.
Cotal, Jean, Puteaux, France. Change-speed gear. No. 1,418,537; June 6.
Couch, Forrest J., assignor to Clark, Cadle, Harmon Corporation, Rochester, N. Y. Washing machine. No. 1,418,625; June 6.
Coultas, William L., Jr., Seaford, N. Y. Feeding device. No. 1,419,025; June 6.
Cowburn, Thomas, Churchdown, England. Toy horse propelled by the rider. No. 1,418,626; June 6.
Cowles, C., & Co. (See Gates, Louis W., assignor.)
Cowles, Thomas L., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Door curtain for vehicles. No. 1,418,627; June 6.
Cox Conservador Company. (See Cox, Harry B., assignor.)
Cox, Harry B., assignor, by mesne assignments, to Cox Conservador Company, Los Angeles, Calif. Apparatus and method for preserving perishable substances. No. 1,418,777; June 6.
Cox, William C., Washington, D. C. Periscope attachment for motion-picture cameras. No. 1,418,364; June 6.
Craddock, Stark W., Richland, Mo. Permutation lock. No. 1,418,778; June 6.
Craw, Frank C., East Norwalk, assignor to Turner Machine Company, Danbury, Conn. Soft-hat-rounding machine. No. 1,418,288; June 6.
Crawford, Franklin E., Winchester, assignor to Bankers Electric Protective Association, Boston, Mass. Alarm system. No. 1,418,628; June 6.
Creedy, Frederick, Ilkley, England. Dynamo-electric machinery. No. 1,418,779; June 6.
Crossley, Frederick S. and F. W., Blackrock, Dublin, Ireland. Sectional hull construction. No. 1,418,629; June 6.
Crossley, Frederick W. (See Crossley, Frederick S. and F. W.)
Crouse, Edward V., Chicago, Ill. Snow-disposal device. No. 1,418,630; June 6.
Crown Cork and Seal Company of Baltimore City, The. (See Derby, William V., assignor.)
Crown Fruit & Extract Co. (See Jagenburg, Eugene R., assignor.)
Crutcher, Clarence L., Fort Worth, Tex. Pipe spear. No. 1,418,538; June 6.
Cullen, Julien F., assignor to Kelly-Springfield Tire Company, Cumberland, Md. Spooling machine. No. 1,418,365; June 6.
Currie, John. (See Thompson, G. H., and Currie.)
Dahlberg, Arthur O., Madison, Wis. Fountain pen. No. 1,419,026; June 6.
Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Shaft bearing. No. 1,418,366; June 6.
Dalzell, Charles B. (See Feldmeier, H., and Dalzell.)
Damaska, Levi, Cadillac, Mich. Heating stove. No. 1,418,431; June 6.
Danaho, William J., Spray, N. C. Feed mechanism for the chemical treatment of water. No. 1,418,289; June 6.
Darby, Robert F., Yonkers, N. Y. Dustguard. No. 1,418,540; June 6.
Davidson, Thomas C., Montreal, Quebec, Canada. Culinary vessel. No. 1,418,432; June 6.

Davis Sewing Machine Company, The. (See Meyer, William H., assignor.)
Davis, Tenney L., Somerville, Mass. High explosive and preparing the same. No. 1,419,027; June 6.
Day, Ralph B. (See Harsel, W. B., and Day.)
De Broeck, Joseph P., Santa Barbara, Calif. Curtain window. No. 1,418,539; June 6.
Decatur Supply and Fare Register Company. (See Woods, C. H., and Ruebsamen, assignors.)
Decker, Hugh L., assignor to the W. G. Nagel Electric Company, Toledo, Ohio. Electrical measuring instrument. No. 1,418,367; June 6.
Deeds, George W., Philadelphia, Pa. Sash lock. No. 1,418,290; June 6.
Demlinger, Morris, Chicago, Ill. Crib. No. 1,418,541; June 6.
Dennig, Alexander J. Minneapolis, Minn. Separator. No. 1,418,866; June 6.
Depollier, Charles F. (See Brun, Joseph, assignor.)
Derby, William V., Baltimore, Md., assignor to The Crown Cork and Seal Company of Baltimore City. Packaging apparatus. No. 1,418,631; June 6.
Dettelbach, Frank C. (See Flannery, J. M., and Dettelbach.)
De Turck, James, et al. (See Scott, Philip N., assignor.)
Deubener, Walter H. (See Groh, Robert C., assignor.)
Dewend, William D., assignor to Oliver Chilled Plow Works, South Bend, Ind. Agricultural implement. No. 1,418,780; June 6.
Diamond, Nicholas. (See Hamlin, Ben M., assignor.)
Diamond State Fibre Company. (See Taylor, John M., assignor.)
Diaz, Angelo, New York, N. Y. Hair-waving device. No. 1,418,291; June 6.
Diehl Manufacturing Company. (See Karle, John D., assignor.)
Diers, John H., Blakeley, and O. Arneson, St. Paul, assignors to Liberty Power Saw Company, Ramsey County, Minn. Portable power saw. No. 1,419,028; June 6.
Diggs, Sterling H., Whiting, Ind., assignor to Standard Oil Company, Chicago, Ill. Separation of petroleum oil sludge. No. 1,418,781; June 6.
Dill, George I., Little Rock, Ark. Machine for harvesting rice and the like. No. 1,418,542; June 6.
Dippel, William T., New York, N. Y. Annunciator. No. 1,418,702; June 6.
Dobesch, Hans, Ludwigsburg, Wurttemburg, Germany. Clothes clip. No. 1,418,543; June 6.
Dodge, John F., Hazleton, Pa. Mechanic's level. No. 1,418,544; June 6.
Doll, Otto, Greenwich, Conn. Dial train. No. 1,419,029; June 6.
Donavan, Paul J., Denver, Colo. Spark plug. No. 1,418,632; June 6.
Double-Drive Truck Company, The. (See Keck, Robert, assignor.)
Douglas, John, Company, The. (See McNeil, John, assignor.)
Draper Corporation. (See Coldwell, Joseph, assignor.)
Draper Corporation. (See Rhoades, Alonzo E., assignor.)
Draper Corporation. (See Snow, Isaac, assignor.) (Reissue.)
Draper Corporation. (See Stimpson, Edward S., assignor.)
Droll, Joseph W., Oakland, Calif., assignor to Droll Patents Corporation. Mattress-roll-forming machine. (Reissue.) No. 15,373; June 6.
Droll Patents Corporation. (See Droll, Joseph W., assignor.) (Reissue.)
Druitt, Percy W., and W. R. Gilpin, London, England. Typographic machine. No. 1,419,030; June 6.
Dufresne, David E., St. Lambert, and W. Adamson, Montreal, Quebec, Canada. Sterilizing apparatus. No. 1,419,031; June 6.
Durborow, Harry J., and B. L. Winders, Philadelphia, Pa. Sound-transmitting means. No. 1,418,909; June 6.
Duval d'Adrian, Alexander L., Washington, Pa. Composition for opal glass. No. 1,419,032; June 6.
Eagle Carburetor Company, The. (See Flannery, J. M., and Dettelbach, assignors.)
Eagle Iron Works. (See Powell, Joseph M., assignor.)
Earle, Horatio S., Detroit, Mich. Screen for sand and gravel. No. 1,418,545; June 6.
Eastman, Ernest A., Portsmouth, Ohio. Shoe last. No. 1,418,546; June 6.
Eastman Kodak Company. (See Bordigion, John, assignor.)
Eastman Kodak Company. (See Sulzer, Albert F., assignor.)
Eastman Kodak Company. (See Webb, William R., assignor.)
Eclipse Interchangeable Counterbore Company, The. (See Smith, John H., assignor.)
Edeborg, Albert W., Jamestown, N. Y. Lubricator-feed-converting means. No. 1,418,867; June 6.
Edser, Edwin, H. L. Sulman, and F. B. Jones, London, England, assignors to Minerals Separation North American Corporation, New York, N. Y. Treatment of materials containing coal. No. 1,418,547; June 6.
Edwards, Francis E., Crystal Lake, assignor to Stromberg Motor Devices Company, Chicago, Ill. Fuel-feed system. No. 1,418,548; June 6.
Egly, Georg, Berlin-Treptow, assignor to Gebr. Siemens & Co., Lichtenberg, near Berlin, Germany. Heating-bar terminal. No. 1,418,633; June 6.
Einstein, Sol, assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio. Trip mechanism for machine tools. No. 1,419,117; June 6.
Elektro-Osmose Aktiengesellschaft (Graf Schwerin Gesellschaft.) (See Wolf, Kuno, assignor.)
Ellis, Carleton, Montclair, N. J., assignor, by mesne assignments, to S. B. Hunt, trustee, Mt. Kisco, N. Y. Oxidizing olefines, etc. No. 1,418,368; June 6.
Emmer, Mike, and W. Nathanson, Chicago, Ill. Radiator core. No. 1,419,111; June 6.
Endless Belt Corporation. (See Grupe, William F., assignor.)
Englander Spring Bed Company. (See Kreuzkamp, August J., assignor.)
Enterprise Manufacturing Company, The. (See Pflueger, C. T., and Adams, assignors.)
Enterprise Railway Equipment Company. (See Campbell, Argyle, assignor.)
Erdle, Reiner W., New York, N. Y., assignor to The Cold Light Manufacturing Company. Device for measuring and feeding luminous materials. No. 1,418,292; June 6.
Etablissements Continsouza (Societe Anonyme.) (See Gauriat, Pierre S., assignor.)
Evans, John J., Tacoma, Wash. Molder's match plate. No. 1,418,703; June 6.
Evans, Owen B., and H. G. Terzian, assignor to The United Gas Improvement Company, Philadelphia, Pa. Using heavy oil in gas making. No. 1,418,782; June 6.
Fafnir Bearing Company, The. (See Searles, Raymond R., assignor.)
Fafnir Bearing Company, The. (See Sellew, Roland W., assignor.)
Falk, Kaufman G. (See Frankel, E. M., and Falk.)
Fassett, Francis K., Dayton, Ohio. Door hanger. No. 1,418,549; June 6.
Fedak, Wasyl, et al. (See Sharp, Jacob, assignor.)
Federal Automobile and Body Painting and Trimming Co. (See Kutschmar, John F., assignor.)
Feldmeier, Harvey, and C. B. Dalzell, assignors to D. H. Burrell & Co., Inc., Little Falls, N. Y. Combined churn and butter worker. No. 1,419,033; June 6.
Fentress, James A., Norfolk, Va. Window. No. 1,418,550; June 6.
Ferrel, Gerald W., Kalamazoo, Mich. Bracket. No. 1,418,551; June 6.
Feucht, Otto H., St. Louis, Mo. Grinder. No. 1,418,433; June 6.
Fibre Container Company. (See Walter, Harrison B., assignor.)
Fields, James Y., assignor of one-half to T. Y. Milburn, Durham, N. C. Lapping machine. No. 1,418,552; June 6.
Fife, Harry E., Lansing, Mich. Supporting device for vehicle bodies. No. 1,418,634; June 6.
Finch, John W., El Reno, and W. A. Talley, Shawnee, Okla. Attachment for straight-air brake valves. No. 1,418,434; June 6.
Fine, Lewis. (See Schenck, C., and Fine.)
Finn, William, Detroit, Mich., assignor to Morgan & Wright. Mold opening device. No. 1,418,635; June 6.
Fisch, Paul, Lyon, France. Pump for delivering motor fuel and the like. No. 1,418,293; June 6.
Fishel Nessler Company. (See Fishel, Theodore H., assignor.)
Fishel, Theodore H., New Rochelle, N. Y., assignor to Fishel Nessler Company. Ornamental covering for shoe buttons. No. 1,419,034; June 6.
Fisher, Henry W., and R. W. Atkinson, Perth Amboy, N. J., assignors to Standard Underground Cable Company, Pittsburgh, Pa. Filling the insulation of hollow cables and product thereof. No. 1,418,369; June 6.
Fisk Rubber Company, The. (See Naylor, Ralph B., assignor.)
Fitz Gerald, John M., Chicago, Ill. Conduit fastener. No. 1,418,370; June 6.
Fix, Daniel, Milaca, Minn. Curved-block mold. No. 1,418,636; June 6.
Flannery, John M., Detroit, Mich., and F. C. Dettelbach, assignors, by mesne assignments, to The Eagle Carbureter Company, Cleveland, Ohio. Carburetor. No. 1,419,035; June 6.
Fletcher, Henry O., Bridgeport, Conn. Searchlight apparatus. No. 1,418,553; June 6.
Flintkote Company, The. (See Overbury, Frederick C., assignor.)
Floberg, Ole E., Shelly, Minn. Potato cutter. No. 1,419,036; June 6.
Flood, Richard J. (See Beard, Jerry L., assignor.)
Flood, Valentine S., New Britain, Conn. Device for use in playing golf. No. 1,418,637; June 6.
Floyd, George G., assignor to American Steel Foundries, Chicago, Ill. Six-wheel truck. No. 1,418,294; June 6.
Foetisch, Ernest A., Albuquerque, N. Mex. Implement for removing separators from storage batteries. No. 1,418,554; June 6.
Fogelquist, Alex E., Minneapolis, Minn. Pie cutter. No. 1,418,868; June 6.
Fokker, Anthony H. G., Amsterdam, Netherlands. Towing connection for flying machines. No. 1,418,783; June 6.
Folkes, Hermann, Brooklyn, N. Y. Ejector for records. No. 1,418,555; June 6.
Folsom, Frederick D. (See Lutz, D. E., and Folsom.)

Fosston-Carpenter Company. (See Carpenter, Francis W., assignor.)
Foster, Catherine, Rochester, N. Y. Money belt and supporter. No. 1,418,371; June 6.
France, Arthur G., London, England. Reflector. No. 1,418,356; June 6.
Frankel, Edward M., and K. G. Falk, assignors to W. G. Lyle, trustee, New York, N. Y. Apparatus for preserving food. No. 1,418,638; June 6.
Fredericks, Henry, et al. (See Mason, William S., assignor.)
Freer, Henry H., Leicester, England. Cutting machine. No. 1,419,037; June 6.
French, Charles A., Chicago, Ill., assignor to International Harvester Company. Refractory material and making the same. No. 1,418,372; June 6.
Fried. Krupp Aktiengesellschaft. (See Martin, Friedrich, assignor.)
Fried. Krupp Aktiengesellschaft. (See Schön, Ludwig, assignor.)
Fuller, Ernest L., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Inflation mechanism. No. 1,419,038; June 6.
Funk, John H., St. Louis, Mo. Car coupling. No. 1,418,784; June 6.
Funk, Nelson E., Montclair, N. J. Blower. No. 1,418,910; June 6.
Gallagher, W. E., Framingham, Mass. Filter. No. 1,418,785; June 6.
Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for making cushion tires. No. 1,418,639; June 6.
Gardiner, Edwin S., New Orleans, La. Device for supporting various articles. No. 1,418,435; June 6.
Gardiner, Edwin S., New Orleans, La. Drip coffeepot. No. 1,418,436; June 6.
Garlick, Jew, Paterson, N. J. Valve. No. 1,418,911; June 6.
Gates, Louis W., assignor to C. Cowles & Co., New Haven, Conn. Lock for vehicle doors. No. 1,418,786; June 6.
Gauntt, Warren S., St. Louis, assignor of one half to E. R. McCormick, Jackson, Mo. Vehicle wheel. No. 1,418,557; June 6.
Gauriat, Pierre S., assignor to Etablissements Continsouza (Societe Anonyme), Paris, France. Supporting device for cinematographic apparatus. No. 1,418,640; June 6.
Gebr. Siemens & Co. (See Egly, Georg, assignor.)
General Motors Corporation. (See Seaholm, E. W., and Parker, assignors.)
General Motors Corporation. (See Sturt, Alfred T., assignor.)
General Seamless Tube Company. (See Brinkman, Louis H., assignor.)
Gerard, Julian M. (See Masson, Henry J., assignor.)
Gerard, Roy H., Detroit, Mich., assignor to Morgan & Wright. Mixing machine. No. 1,418,641; June 6.
Gerard, Roy H., Detroit, Mich., assignor to Morgan & Wright. Mixing machine. No. 1,418,642; June 6.
Gerosa, Anthony, New York, N. Y., assignor to W. F. Hudson, Philadelphia, Pa. Spring brush for timers. No. 1,419,039; June 6.
Getchell, Benjamin E., assignor to The Trumbull Electric Mfg. Co., Plainville, Conn. Quick-break switch mechanism. No. 1,418,558; June 6.
Gettle, Homer R., and C. S. Scott, Bluffton, Ind. Eyeglass mounting. No. 1,419,040; June 6.
Getz, Benjamin E. (See Leader, J., Litwiller, and Getz.)
Getz Power Washer Co. (See Leader, J., Litwiller, and Getz, assignors.)
Giannacopoulos, George J., Pittsburgh, Pa. Bridging device for railway crossings. No. 1,418,559; June 6.
Gilbert, William L., Clock Company. (See Hyde, Charles H., assignor.)
Gilbert, William L., Clock Company. (See Williams, Charles E., assignor.)
Gillen, George A., Jersey City, N. J., assignor to Gillen Laboratories Corporation. Flying toy. No. 1,419,041; June 6.
Gillen Laboratories Corporation. (See Gillen, George A., assignor.)
Gilpin, William R. (See Druitt, P. W., and Gilpin.)
Ginnings, Paul M. (See Anders, P., and Ginnings.)
Glackin, Edward J., Chicago, Ill. Cushion mechanism No. 1,418,912; June 6.
Goddard, Stewart, Toronto, Ontario, Canada. Tire chain. No. 1,418,373; June 6.
Gohmann, John B., Lincoln, Nebr. Air-purifying apparatus. No. 1,418,296; June 6.
Gold Car Heating & Lighting Company. (See Gold, Edward E., assignor.)
Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Protected thermostat. No. 1,418,913; June 6.
Golde, Alfred, Gera, Germany. Supporting frame for windshields. No. 1,418,643; June 6.
Goldsmith, Herman, assignor to The American Tobacco Company, New York, N. Y. Vacuum container No. No. 1,418,914; June 6.
Goldstein, Abraham S., assignor to Time-Rite Manufacturing Company, Baltimore, Md. Timer. No. 1,419,042; June 6.
Goodrich, B. F., Company. (See Gammeter, John R., assignor.)
Goodrich, Chauncey M., Cottam, Ontario, Canada. Building construction No. 1,418,297; June 6.
Goodyear Tire & Rubber Company. (See Bedford, C. W., and Sibley, assignors.)
Goodyear Tire & Rubber Company, The. (See Bedford, Clayton W., assignor.)
Goodyear Tire & Rubber Company, The. (See Fuller, Ernest L., assignor.)
Goodyear Tire & Rubber Company, The. (See Harsel, W. B., and Day, assignors.)
Goodyear Tire & Rubber Company, The. (See Kraft, Herman T., assignor.)
Goodyear Tire & Rubber Company, The. (See Landon, Chauncey L., assignor.)
Goodyear Tire & Rubber Company, The. (See Lewis, Warren K., assignor.)
Goodyear's India Rubber Glove Manufacturing Company, The. (See McGee, Howard H., assignor.)
Gorder, Olaf M., Zumbrota, Minn. Bobsled. No. 1,418,299; June 6.
Gorman, Thomas J., Philadelphia, Pa. Longitudinal rod adjustment. No. 1,418,298; June 6.
Grambow, Herman T., Atchison, Kans. Store-service cabinet. No. 1,418,787; June 6.
Gray, John, Elyria, Ohio. Tire-chain fastener. No. 1,419,043; June 6.
Green, Edward D., Chicago, Ill. Compound turbine blower. No 1,418,704; June 6.
Greene, Frank R., Chicago, Ill. Vending receptacle. No. 1,418,560; June 6.
Gregg, William H. (See Hachmann, Frederick, assignor.)
Grisak, Matt, Dubois, Pa. Rail splicer. No. 1,418,915; June 6.
Groh, Robert C., assignor to W. H. Deubener, St. Paul, Minn. Carry bag. No. 1,418,705; June 6.
Groover, John D., Atlanta, Ga. Antislipping device. No. 1,418,916; June 6.
Grothe, John J., Company. (See MacKay, Arthur B., assignor.)
Grover, Albert D., New York, N. Y., assignor, by mesne assignments, to Autosales Corporation. Coin-controlled vending machine. No. 1,418,300; June 6.
Grover, Albert D., New York, N. Y., assignor, by mesne assignments, to Autosales Corporation. Coin-controlled vending machine. No. 1,418,301; June 6.
Grupe, William F., Hudson Heights, N. J., assignor to Endless Belt Corporation, Inc. Cut-off mechanism. No. 1,418,437; June 6.
Guiberson Corporation, The. (See Wilson, Robert A., assignor.)
Guille, John, Guernsey, Channel Islands. Load-carrying attachment for motor cars. No. 1,418,438; June 6.
Gunderson, Arthur J., et al. (See Gunderson, Julia A., assignor.)
Gunderson, Julia A., Sergeant Bluff, Iowa, assignor of one-third to A. J. Gunderson, Long Beach, Calif., and one-third to G. G. Strong, Sioux City, Iowa. Catamenial sack. No. 1,419,044; June 6.
Guth, Edwin F., assignor to St. Louis Brass Manufacturing Company, St. Louis, Mo. Lighting fixture. No. 1,418,302; June 6.
Gynn, Hattie E., Cleveland Heights, Ohio. Spring seat. No. 1,418,561; June 6.
Haase, Jorgen I., assignor to The Wrapping Ad Machine Co., Towson, Md. Combined roll-paper holder and printer. No. 1,418,562; June 6.
Hachmann, Frederick, assignor to W. H. Gregg, St. Louis, Mo. Milk-bottle closure. No. 1,418,439; June 6.
Hale, Willis W., Cleveland, Ohio. Electric heater. No. 1,418,917; June 6.
Hall, Andrew F., West Somerville, assignor to Pressure Proof Piston Ring Company, Boston, Mass. Piston packing. No. 1,418,918; June 6.
Hall, Horace C., assignor to Rolls-Royce Limited, Derby, England. Aluminum alloy. No. 1,418,303; June 6.
Hall, Lewis S., et al. (See Meeder, Herbert L., assignor.)
Hall, Roy L., Portageville, Mo. Hinge. No. 1,418,919; June 6.
Hall, William C., et al. (See Scott, Philip N., assignor.)
Halsey, William S., Dover, N. J. Roller bearing. No. 1,418,304; June 6.
Hamel Shoe Machinery Company. (See Reardon, Fred A., assignor.)
Hamel Shoe Machinery Company. (See Valois, Félix E., assignor.)
Hamilton, Asbury, Brooklyn, N. Y. Display rack. No. 1,418,563; June 6.
Hamilton Cassard & Co. (See Stenger, J. B., McCaffray, and Oyler, assignors.)
Hamilton, Christopher H., South Devon, England. Pneumatic tire. No. 1,419,045; June 6.
Hamlin, Ben M., assignor to N. Diamond, Chicago, Ill. Wardrobe trunk. No. 1,418,564; June 6.
Hamlin, John G., Tallahasse, Fla. Combined bearing shim and wear-compensating washer. No. 1,418,920; June 6.
Hammond, John H., Jr., Gloucester, Mass. System for control of bodies by radiant energy. No. 1,418,788; June 6.
Hammond, John H., Jr., Gloucester, Mass. System for control of bodies by radiant energy. No. 1,418,789; June 6.
Hammond, John H., Jr., Gloucester, Mass. Radiodynamic control of gyroscopes. No. 1,418,790; June 6.

Hammond, John H., Jr., Gloucester, Mass. System for control of moving bodies by radiant energy. No. 1,418,791; June 6.
Hammond, John H., Jr., Gloucester, Mass. System for control of moving bodies by radiant energy. No. 1,418,792; June 6.
Hammond, John H., Jr., Gloucester, Mass. System of teledynamic control for dirigible bodies. No. 1,418,793; June 6.
Hammond, John H., Jr., Gloucester, Mass. System of teledynamic control. No. 1,418,794; June 6.
Hammond, John H., Jr., Gloucester, Mass. Launching mechanism for torpedoes. No. 1,418,795; June 6.
Hammond, John H., Jr., Gloucester, Mass. Teledynamic control. No. 1,418,796; June 6.
Hammond, John H., Jr., Gloucester, Mass. System of submarine-mine laying. No. 1,418,797; June 6.
Hammond, John H., Jr., Gloucester, Mass. Teledynamic control. No. 1,418,869; June 6.
Hammond, John H., Jr., Gloucester, Mass. Radiodynamic torch-launching mechanism. No. 1,418,870; June 6.
Hammond, John H., Jr. (See Trenor, Albert D., assignor.)
Hampton, Leon N., assignor to Western Electric Company, Incorporated, New York, N. Y. Reeling device. No. 1,418,706; June 6.
Handen, James, Covington, Ky. Rail-holding plate. No. 1,419,046; June 6.
Handlan-Buck Manufacturing Company. (See Rolfes, George H., assignor.)
Handley, George, Palmers Green, assignor of one-half to P. W. Bullock, London, England. Rotary pump with ejector. No. 1,418,921; June 6.
Hanks, George R., and R. Somerville, assignors to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Dipper tooth. No. 1,419,047; June 6.
Hansemann, Richard A. (See Kucharski, Stanislaus, assignor.)
Hansen, Klaus L., Milwaukee, Wis. Constant-current generator for arc welding. No. 1,418,707; June 6.
Harding, Charles B., et al. (See Mason, William S., assignor.)
Hardman, George H., Fall River, Mass. Coating for railway ties and applying the same. No. 1,418,708; June 6.
Hardman, Morris, San Francisco, Calif. Opera chair. No. 1,418,709; June 6.
Harila, Andrew, Park City, Utah. Altitude meter. No. 1,418,922; June 6.
Harrington, Joseph, Riverside, Ill. Heating apparatus. No. 1,418,871; June 6.
Harris, William H., Indianapolis, Ind. Differential drive mechanism. No. 1,418,565; June 6.
Harrison, Mary R., Boston, assignor to E. H. Angier, Framington, Mass. Making reenforced receptacles. No. 1,419,048; June 6.
Harsel, William B., and R. B. Day, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tension device. No. 1,419,049; June 6.
Hartford Rubber Works Company, The. (See Lough, Hector V., assignor.)
Hasbrouck, Stephen A., New Haven, Conn. Fuel injector. No. 1,418,566; June 6.
Haskelite Manufacturing Corporation. (See Meyercord, George R., assignor.)
Havens, Gustus H., Lansing, Mich. Waterproofing composition. No. 1,418,374; June 6.
Haviland, Clarence M., and L. C. Brown, Minneapolis, Minn., assignors to L. M. Haviland, legatee. Boring machine. No. 1,418,923; June 6.
Haviland, Lillian M., legatee. (See Haviland, C. M., and Brown, assignors.)
Hawaiian Pineapple Company. (See Hoyt, S. T., and Napier, assignors.)
Hawkins, Wilford J., Montclair, N. J. Fuse. No. 1,418,710; June 6.
Hawley, Seba H., Springfield, Mo. Portable jig saw. No. 1,418,644; June 6.
Hayden, R. B. (See Carter, G. W., and Hayden.)
Haynes, George P., Tracy, Calif. Control attachment for scrapers. No. 1,418,567; June 6.
Hedrick, Charles C., Cambridge, assignor to Saco-Lowell Shops, Boston, Mass. Cam-operating mechanism for gill boxes. No. 1,418,568; June 6.
Hemphill Company. (See Bosworth, George P., assignor.)
Henderson, Justin. (See Tregoe, B. B., and Carroll, assignors.)
Henderson, William M., Easton, assignor to William Wharton, Jr., & Co., Incorporated, Easton, Pa. Tractor wheel. No. 1,419,050; June 6.
Henderson, William M. (See Psilander, C. A., and Henderson.)
Hensoldt, Carl, Wetzler, Germany. Extensible pocket microscope with variable enlargement and with fine adjustment. No. 1,418,645; June 6.
Herold, Walter F., Newark, N. J., assignor to The Bassick Company, Bridgeport, Conn. Caster. No. 1,418,711; June 6.
Herrick, William H., Indianapolis, assignor of one-half to H. B. Miller, Cambridge City, Ind. Child's vehicle. No. 1,418,569; June 6.
Hess, Edward B., and L. C. Myers, Brooklyn, assignors to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. No. 1,418,440; June 6.
Hext, William A., assignor to W. Macleod, Cincinnati, Ohio. Machine for cleaning castings and the like. No. 1,419,118; June 6.
Hill, Thomas T., et al., administrators. (See Berkeley, Wales O.)
Hinton, John R., Hansen, Idaho. Swather for mowing machines. No. 1,419,051; June 6.
Hirschl, Marcus A., Chicago, Ill. Display box. No. 1,418,798; June 6.
Hodgkinson, Otred, Oakdale, assignor to F. J. Trcka, New Orleans, La. Work-clamping bench. No. 1,418,924; June 6.
Hoehnen, John C. (See Bayne, G. G., and Hoehnen.)
Hoff, Chester D., Winchester, Wash. Appliance for cleaning tubes. No. 1,418,925; June 6.
Hoge, Daniel W., assignor, by mesne assignments, to Bash Oil and Refining Company, Chicago, Ill. Apparatus for treating petroleum vapor. No. 1,418,375; June 6.
Hollinwood, George, Cranford, N. J. Combination compass and sun dial. No. 1,418,926; June 6.
Holmberg, Oscar F., Chicago, Ill. Egg-dipping machine. No. 1,418,927; June 6.
Holmes, Gustav E., J. M. and A. G. Bostrom, Milwaukee, Wis. Windshield weather seal. No. 1,418,305; June 6.
Holquist, William A., Los Angeles, Calif. Key-locking device. No. 1,418,872; June 6.
Holt, Frank P., Fort Worth, Tex. Paper clip. No. 1,418,306; June 6.
Holzoverkohlungs-Industrie Actien-Gesellschaft. (See Róka, Koloman, assignor.)
Honegger, Albert, assignor to Maschinenfabrik Ruti, formerly Caspar Honegger, Ruti, Switzerland. Operating mechanism for power-driven looms. No. 1,418,646; June 6.
Hoon, K. C. (See Cathcart, William A. P., assignor.)
Hopkins, Arthur C., Minneapolis, Minn. Shock absorber. No. 1,418,712; June 6.
Horn, Joe, Eureka, Utah. Riffle board. No. 1,419,052; June 6.
Horsham, John F., Laurel Hill, N. Y. Thermostat. No. 1,418,928; June 6.
Horton, Charles, Ridgefield Park, N. J. Framing apparatus. No. 1,418,570; June 6.
House, Charles L., San Francisco, Calif. Truck body. No. 1,418,929; June 6.
Houston, Aubrey, Christchurch, and H. P. Stephenson, Ashburton, New Zealand. Locking device. No. 1,418,571; June 6.
Howard, Roscoe A., Oldtown, Me. Folder for cloth samples. No. 1,419,053; June 6.
Howcott, Harley A. W., New Orleans, La. Round-bale cotton press. No. 1,418,441; June 6.
Hoxie, George L., Upper Montclair, N. J. Process of and apparatus for cracking oils. No. 1,418,713; June 6.
Hoyle, Henry P., Durham, England. Apparatus for washing coal or the like and for separating it from its impurities. No. 1,418,442; June 6.
Hoyt, Hazen L., Jr. (See Bell, H. W., and Hoyt.)
Hoyt, Simes T., and J. S. Napier, assignors to Hawaiian Pineapple Company, Limited, Honolulu, Hawaii. Conveyer chain for canning apparatus. No. 1,418,572; June 6.
Hoyt, Simes T., and J. S. Napier, assignors to Hawaiian Pineapple Company, Limited, Honolulu, Hawaii. Automatic gate for delivery chutes. No. 1,418,573; June 6.
Hoyt, Simes T., and J. S. Napier, assignors to Hawaiian Pineapple Company, Limited, Honolulu, Hawaii. Canning apparatus. No. 1,418,574; June 6.
Hudson, Charles C., Atlanta, Ga. Spring mounting. No. 1,418,799; June 6.
Hudson, William F. (See Gerosa, Anthony, assignor.)
Huff, Bert M., Highland Park, assignor to H. A. Arnold, Detroit, Mich. Toy wagon. No. 1,418,647; June 6.
Hull, Robert W., Hingham, Mass. Refractory material and making same. No. 1,418,648; June 6.
Hullinger, Elma E., Springfield, Ohio. Cleansing composition. No. 1,418,800; June 6.
Humphries, Thomas Z., Detroit, Mich. Garage building. No. 1,418,714; June 6.
Hunt, Harry. (See Webster, J. S., and Hunt.)
Hunt, Seth B., trustee. (See Ellis, Carleton, assignor.)
Hunt, Seth B., trustee. (See Wells, Alfred A., assignor.)
Hyde, Charles H., assignor to William L. Gilbert Clock Company, Winsted, Conn. Clock case. No. 1,418,649; June 6.
Hyle, Jacob A., and G. W. Whiteman, Philadelphia, Pa. Railway rail joint. No. 1,418,930; June 6.
Igney, Asal W., et al. (See Igney, William D. F., assignor.)
Igney, Cecil C., et al. (See Igney, William D. F., assignor.)
Igney, William D. F., C. C. Igney, and one-fourth to D. M. Rupert, Roanoke, and one-fourth to A. W. Igney, Huntington, Ind. Draft rig for tractors. No. 1,419,119; June 6.
Ingersoll-Rand Company. (See Smith, William A., assignor.)
Inglis, John, et al. (See Meeder, Herbert L., assignor.)
Institute of Industrial Research, Inc., The. (See Coggeshall, G. W., and Rector, assignors.)
International Harvester Company. (See Benjamin, B. R., and Merwin, assignors.)

International Harvester Company. (See French, Charles A., assignor.)
International Motor Company. (See Leipert, August H., assignor.)
Ionides, Alexander C., Jr., London, England. Gaseous-fuel burner. No. 1,419,054; June 6.
Iverson, John, Minneapolis, Minn. Nonskid chain. No. 1,418,873; June 6.
Iverson, Leon H. (See Iverson, Lester I., M. W., and L. H.)
Iverson, Lester I., M. W., and L. H., Penalosa, Kans. Wire-handling machine. No. 1,418,575; June 6.
Iverson, Myron W. (See Iverson, Lester I., M. W., and L. H.)
Jacobi, Edward N., assignor to Briggs & Stratton Company, Milwaukee, Wis. Switch. No. 1,418,376; June 6.
Jagenburg, Eugene R., assignor to Crown Fruit & Extract Co. Inc., New York, N. Y. Fruit and vegetable cutting machine. No. 1,418,443; June 6.
Jahn, B., Manufacturing Company, The. (See Jahn, Berthold, assignor.)
Jahn, Berthold, assignor to The B. Jahn Manufacturing Company, New Britain, Conn. Coin-controlled vending machine. No. 1,419,055; June 6.
James, Joseph C., Antioch, Ill. Floral hanger. No. 1,418,801; June 6.
Janney, Peyton R., assignor to Mills Baking Company, Detroit, Mich. Icing machine. No. 1,418,715; June 6.
Jansky, Charles J., Two Rivers, Wis. Automatic grave closure. No. 1,418,716; June 6.
Jaynes, Charles B., Birmingham, Ala. Roofing. No. 1,418,377; June 6.
Johnson, Arthur L. (See Knoble, William B., assignor.)
Johnson, Frederick I., assignor to M. W. Johnson, Warren, R. I. Pipe clamp. No. 1,418,650; June 6.
Johnson, Lawrence T., Buffalo, N. Y. Lifting jack. No. 1,418,651; June 6.
Johnson, Mary W. (See Johnson, Frederick I., assignor.)
Johnston, Clarence S., Glendive, Mont. Oil can. No. 1,418,576, June 6.
Johnston, Harry B., Seattle, Wash. Piston and piston ring. No. 1,418,802; June 6.
Johnston, Harry B., Seattle, Wash. Piston and piston ring. No. 1,418,931; June 6.
Johnston, Howard M., assignor to Massey-Harris Company, Limited, Toronto, Ontario, Canada. Endless carrier. No. 1,418,577; June 6.
Jones, Frank B. (See Edser, E., Sulman, and Jones.)
Jones, Henry L., assignor to The Cleveland Chain and Manufacturing Company, Cleveland, Ohio. Connecting device. No. 1,419,112; June 6.
Jones, Lloyd, assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Manipulator. No. 1,418,932; June 6.
Josephs, Lyman C., Jr., Flushing, N. Y. Internal-combustion turbine. No. 1,418,444; June 6.
Josephson Bag Company, The. (See Josephson, Harry, assignor.)
Josephson, Harry, assignor to The Josephson Bag Company, Bridgeport, Conn. Coal bag. No. 1,418,717; June 6.
Jourdan, Felix. (See Blanc, G. A., and Jourdan.)
Kalman, Frank, Sydney, New South Wales, Australia. Trousers. No. 1,418,578; June 6.
Kane, John J., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Time-limit apparatus. No. 1,418,803; June 6.
Kane, John J., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Thrust bearing. No. 1,418,804; June 6.
Kania, Rudolf, Vindex, Md Cooker. No. 1,418,378; June 6.
Karle, John D., Roselle Park, assignor to Diehl Manufacturing Company, Elizabeth, N. J. Locking device. No. 1,418,379; June 6.
Kaufman, Morris L., Brooklyn, N. Y. Die. No. 1,419,056; June 6.
Keck, Robert, assignor to The Double-Drive Truck Company, Chicago, Ill. Universal joint. No. 1,418,380; June 6.
Kells, Charles E., New Orleans, La. Dental appliance. No. 1,418,445; June 6.
Kelly-Springfield Tire Company. (See Cullen, Julien F., assignor.)
Kelvinator Corporation. (See Kolbe, Frederick H., assignor.)
Kendall, Donald S., East Orange, assignor to Condensite Company of America, Bloomfield, N. J. Making a phenolic condensation product. No. 1,418,718; June 6.
Kentucky Switch & Signal Co. Inc. (See Scoggan, Richard R., assignor.)
Kern, Frederick E., St. Louis, Mo. Shaping and ironing tool. No. 1,418,381; June 6.
Kestner, Paul, Paris, France. Edible product obtained from the sugar juices of beets and obtaining it. No. 1,419,057; June 6.
Keys, Walter C., assignor to The Standard Parts Company, Cleveland, Ohio. Roller-bearing cage. No. 1,418,652; June 6.
Kierum, Charles J., Schertz, Tex. Hydrocarbon engine. No. 1,418,307; June 6.
Kilgore, A Dewey, Akron, Ohio. Shaffer-strip guide device. No. 1,418,653; June 6.
Kirk, Charles J., New Castle, Pa. Heat-treating furnace and method. No. 1,418,446; June 6.
Kirk, William C., Sr., Chattanooga, Tenn. Jack. No. 1,418,654; June 6.
Kirschke, Frank, Philadelphia, Pa. Rotary harrow. No. 1,418,933; June 6.
Kissinger, Robert C., Dayton, Ohio. Trolley wheel. No. 1,418,579; June 6.
Klausmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Sleeveless reversing clutch. No. 1,418,805; June 6.
Klausmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Gear-like safety device for stripped threads. No. 1,419,058; June 6.
Klawans, Eliott, Washington, D. C. Link button. No. 1,418,934; June 6.
Klein, Maurice, Brooklyn, N. Y. Bloomer dress. No. 1,419,059; June 6.
Klemmer, George A., Owatonna, Minn. Adjustable support for testing electrical units. No. 1,418,655; June 6.
Knight-American Patents Company, The. (See Knight, Charles Y., assignor.)
Knight, Charles Y., Pasadena, Calif., assignor to The Knight-American Patents Company, Chicago, Ill. Engine piston. No. 1,418,719; June 6.
Knoble, William B., Tacoma, assignor of one-half to A. L. Johnson, Seattle, Wash. Telescope mount for rifles. No. 1,418,935; June 6.
Knowles, Charles L., Kingsley, Iowa. Tire-chain fastener. No. 1,419,060; June 6.
Knowlton, Eugene W., Buffalo, N. Y., assignor to John P. Smith's Sons Company. Bread-cutting machine. No. 1,418,874; June 6.
Kolanowski, Jan, Hegewisch, Ill. Toy. No. 1,418,936; June 6.
Kolbe, Frederick H., assignor to Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. No. 1,418,806; June 6.
Kolbe, John L., Crookston, Minn. Dump wagon. No. 1,418,937; June 6.
Kolbe, John L., Crookston, Minn. Package tie. No. 1,418,938; June 6.
Kopp, Henry. (See Betz, Eugene, assignor.)
Koppers Company, The. (See Sperr, F. W., Jr., and Rose, assignors.)
Kovar, Joseph J. (See Kubista, C. L., and Kovar.)
Kovar, Joseph J., Owatonna, Minn. Cultivator. No. 1,418,807; June 6.
Kovar, Joseph J., Owatonna, Minn. Spring tooth for ground-working implements. No. 1,418,808; June 6.
Kraft, Herman T., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Reenforced rubber propeller. No. 1,419,061; June 6.
Krause, Norman R. (See MacGregor, W. F., and Krause.)
Kreuzkamp, August J., Chicago, Ill., assignor to Englander Spring Bed Company, Brooklyn, N. Y. Bed. No. 1,418,382; June 6.
Kroegher, John H., administrator. (See Kroegher, Wilhelm C.)
Kroegher, Wilhelm C., deceased, Bellevue, Pa., J. H. Kroegher, administrator. Vehicle wheel. No. 1,418,656; June 6.
Kronewitter, Carl H., Indianapolis, Ind. Vehicle-spring lubricator. No. 1,418,580; June 6.
Kubista, Charles L., New Ulm, Minn., and J. J. Kovar, Owatonna, Minn.; said Kubista assignor to said Kovar. Transmission mechanism. No. 1,418,809; June 6.
Kucharski, Stanislaus, Charlottenburg, near Berlin, assignor to R. A. Hansemann, Berlin, Germany. Motor mechanism for operating telautographs. No. 1,418,657; June 6.
Kuen, Eugene A., assignor to T. J. Corcoran, Cincinnati, Ohio. Lamp. No. 1,419,062; June 6.
Kulp, Louis F., Gwynedd, Pa. Jar-cap former. No. 1,418,939; June 6.
Kutschmar, John F., assignor to Federal Automobile and Body Painting and Trimming Co., Detroit, Mich. Seat cover. No. 1,418,940; June 6.
L-W-F Engineering Company. (See Willard, Charles F., assignor.)
Ladd, James B., Ardmore, Pa. Method and means for brick hacking. No. 1,418,658; June 6.
Laird, Wesley E., Pittsfield, Mass. Internal-combustion engine. No. 1,418,875; June 6.
Lally, John, Boston, Mass. Building column. No. 1,418,581; June 6.
Lamadrid, Federico Santos, Madrid, Spain. Apparatus applicable to the receivers of telephones. No. 1,419,063; June 6.
Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Six-wheel railway car truck. No. 1,418,308; June 6.
Landis Tool Company. (See Stoner, Paul, assignor.)
Landon, Chauncey L., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-making machine. No. 1,419,064; June 6.
Landrivon, Joanny. (See Altwegg, J., and Landrivon.)
Langmack, Roy E., Minneapolis, Minn. Safety appliance. No. 1,418,720; June 6.
Lantery, Frank B., South Easton, Mass. Candy-wrapping machine. No. 1,418,659; June 6.
Larson, Hiram A., assignor of one-third to A. J. Rahn and one-third to N. P. Petersen, Manitowoc, Wis. Coupling expander. No. 1,418,721; June 6.

Latta, Charles, St. Louis, Mo. Packing ring. No. 1,418,582; June 6.
Lawhead, Lester A., St. Joseph, Mo. Railway-crossing signal. No. 1,418,660; June 6.
Layman, Hebron B., Bronxville, N. Y. Built-up sheet-metal structure. No. 1,418,309; June 6.
Leader, John, T. Litwiller, and B. E. Getz, assignors to Getz Power Washer Co., Morton, Ill. Operating mechanism for washing machines. No. 1,418,295; June 6.
Lefler, William B., Springfield, Nebr. Driving mechanism for vehicles. No. 1,418,310; June 6.
Legg, David A., assignor to M. A. Adam, London, England. Manufacture of butyric aldehyde. No. 1,418,448; June 6.
Leich Electric Co. (See Reid, Alexander C., assignor.)
Leipert, August H., assignor to International Motor Company, New York, N. Y. Gearing. No. 1,418,447; June 6.
Lemon, James J., Arnold, Pa. Plastic composition. No. 1,418,810; June 6.
Lenders, Adolph W. H., and H. F. Bauer, Cedar Rapids, Iowa, assignors, by mesne assignments, to Penick & Ford, Ltd., Incorporated. Making soluble starch products. No. 1,418,311; June 6.
Leonard, Norris C., Baltimore, Md. Sanitary trap. No. 1,418,941; June 6.
Leu, Adolf, Hoboken, N. J. Coal car. No. 1,418,722; June 6.
Lewis, Warren K., Newton, Mass., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Preparation of lampblack. No. 1,418,811; June 6.
Lewis, William G., Los Angeles, Calif. Water heater. No. 1,418,812; June 6.
Lockhart, Charles F., and E. H. Roby, Cleveland, Ohio. Washing machine. No. 1,418,586; June 6.
Lockhart, Charles F., and E. H. Roby, Cleveland, Ohio. Washing-machine pounder. No. 1,418,587; June 6.
Locomobile Company, The. (See Cowles, Thomas L., assignor.)
Loftus, Edward M., St. Paul, Minn. Pliers. No. 1,418,312; June 6.
Long, George F., New York, N. Y., assignor to The G. Fiel Company, Inc. Pedal. No. 1,418,313; June 6.
Loski, Conrad, Miller Run, Pa. Aeroplane. No. 1,418,943; June 6.
Liberty Power Saw Company. (See Diers, J. H., and Arneson, assignors.)
Lichter, Malvin, New York, N. Y. Bank book. No. 1,419,065; June 6.
Lick, Captilles A., assignor to Weldon, Williams, and Lick, Fort Smith, Ark. Ticket. No. 1,419,066; June 6.
Lincke, Alexander R. M., Zurich, and O. Lincke, Oerlikon, near Zurich, Switzerland. Hot-water heating system. No. 1,418,583; June 6.
Lincke, Otto. (See Lincke, Alexander R. M. and O.)
Ling, Jacob H., Detroit, Mich. Repeating phonograph. No. 1,418,584; June 6.
Link-Belt Company. (See Weiss, C. R., and Morrish, assignors.)
Link, Rolls P., Winchmore Hill, England. Air moistener. No. 1,418,942; June 6.
Lisenby, A. V. (See Livermore, John W., assignor.)
Litwiller, Thomas. (See Leader, J., Litwiller, and Getz.)
Livermore, John W., assignor of one-half to A. V. Lisenby, Fresno, Calif. Grouser attachment for tractors. No. 1,418,585; June 6.
Loudon, Clarence W., Huntington Park, Calif. Protective armor for pneumatic tires. No. 1,418,661; June 6.
Lough, Hector V., Hartford, Conn., assignor to The Hartford Rubber Works Company. Tire-shaping machine. No. 1,418,662; June 6.
Lower, Alfred P., Bradford, Ohio. Fishing-line float. No. 1,418,944; June 6.
Luce, Thomas C., Stratford, Conn. Automobile shock absorber and stabilizer. No. 1,418,813; June 6.
Lüers, Heinrich, Munich, Germany. Manufacturing a coloring matter for beer. No. 1,418,945; June 6.
Luftschiffbau Zeppelin Gesellschaft mit beschrankter Haftung. (See Stahl, Karl, assignor.)
Lush, Ernest J. (See Bolton, E. R., and Lush.)
Lutz, Daniel E., and F. D. Folsom, Buffalo, N. Y. Bottle. No. 1,418,814; June 6.
Lyberger, Albert N., Elyria, Ohio. Car replacer. No. 1,418,588; June 6.
Lyle, William G., trustee. (See Frankel, E. M., and Falk, assignors.)
Lyon, George A., Philadelphia, Pa. Automobile buffer attacher. No. 1,418,946; June 6.
Lyon Metallic Manufacturing Company. (See O'Connor, John B., assignor.)
Lysen, John E., Chicago, Ill., assignor to J. W. Butler Paper Company. Calculator. No. 1,418,947; June 6.
M-V. All Weather Train Controller Company. (See Minnick, Alfred, assignor.)
McAllaster, George R., Rochester, N. Y. Bed. No. 1,418,589; June 6.
McBee Binder Company. (See McBee, Charles F., assignor.)
McBee, Charles F., assignor to McBee Binder Company, Athens, Ohio. Lock for binders. No. 1,418,314; June 6.
McBee, Charles F., Athens, Ohio. Index book for filing systems. No. 1,418,315; June 6.
McBride, Jesse E., assignor to Palmer-Bee Company, Detroit, Mich. Conveyer. No. 1,418,590; June 6.
McCabe, Thomas, Yorkville, Ohio. Plate-lifting mechanism for hot mills. No. 1,418,815; June 6.
McCaffray, Edmund. (See Stenger, J. B., McCaffray, and Oyler.)
McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling system. No. 1,418,663; June 6.
McCarthy, Thomas J., Lawndale, Calif., assignor to Auto Lift and Carrier Company, Phoenix, Ariz. Autotruck. No. 1,419,067; June 6.
McCarthy, Thomas J., Newark, N. J. Engine primer for automobiles. No. 1,418,591; June 6.
McCartney, Elmer B., assignor to Toro Motor Company, Minneapolis, Minn. Mounting for traction drive wheels. No. 1,418,948; June 6.
McClellan, Orla E. (See Wignall, J. S., Jr., and McClellan.)
McConville, Edward, Philadelphia, Pa. Resilient wheel. No. 1,418,723; June 6.
McCormick, Elbert R. (See Gauntt, Warren S., assignor.)
McCoy, Charles C., Portland, Oreg. Automatic pipe wrench. No. 1,418,816; June 6.
McDonald, Edward. (See Cockburn, D., and McDonald.)
McFadden, Robert M., Havana, Ill. Electric well-boring tool. No. 1,419,068; June 6.
McFarland, Samuel, Coatesville, Pa. Casting apparatus. No. 1,418,949; June 6.
McGee, Howard H., Waterbury, Conn., assignor to The Goodyear's India Rubber Glove Manufacturing Company. Syringe valve. No. 1,418,592; June 6.
McGinnis, Walter R., assignor to Pilsory-Becker Engineering & Supply Company, St. Louis, Mo. Apparatus for recovery of gasoline from casing-head gas. No. 1,418,876; June 6.
McGowan, Frank J., Mechanicsville, N. Y. Automobile washer. No. 1,418,383; June 6.
McKee, Walter S., Chicago, Ill. Tractor link. No. 1,418,316; June 6.
McNeil, John, assignor to The John Douglas Company, Cincinnati, Ohio. Self-closing faucet. No. 1,418,664; June 6.
Mabee, Leroy R., Hailey, Idaho. Fuel mixer for gasoline engines. No. 1,418,877; June 6.
MacGregor, Wallace F., and N. R. Krause, assignors to J. I. Case Threshing Machine Company, Racine, Wis. Self-feeder for thrashing machines. No. 1,418,724; June 6.
Mack, Rudolph A., Gallipolis, Ohio. Child's occupant propelled vehicle. No. 1,418,817; June 6.
Mack, Rudolph A., Gallipolis, Ohio. Coaster sled. No. 1,418,818; June 6.
MacKay, Arthur B., assignor to John J. Grothe Company, Inc., Woburn, Mass. Refrigerating apparatus. No. 1,418,665; June 6.
MacKellar, Robert E., Ashland, Ohio. Adjustable portable door fastener. No. 1,418,593; June 6.
Macleod, Walter. (See Hext, William A., assignor.)
Madson, Amos, Pontiac, Ill., assignor to Norway Welt Shoe Corporation, Wilmington, Del. Die for shoe soles. No. 1,418,317; June 6.
Maeder, Horst. (See Willstatter, R., Wolfes, and Maeder.)
Maeder, Horst. (See Wolfes, O., and Maeder.)
Maehler, Arthur, Chicago, Ill. Drying-oven door and doorway. No. 1,418,594; June 6.
Maltby, Julius, assignor to Waterbury Buckle Co., Waterbury, Conn. Garment-fastener button. No. 1,418,819; June 6.
Maney, Thomas, Louisville, Ky. Curve guardrail fixture for railway tracks. No. 1,418,950; June 6.
Manifold Impressions Corporation. (See Cossitt, Malcolm L., assignor.)
Manning, Joseph M. (See Smith, J. T., Wilkins, and Manning.)
Mansure, Nellie F., Chicago, Ill. Telephone-receiver support. No. 1,418,820; June 6.
Manufacturing Company of America. (See Wootten, C. T., assignor.)
Marbel, Myer M., Chicago, Ill. Blood-cell calculator. No. 1,418,384; June 6.
Marion Machine Foundry and Supply Company, The. (See Smith, Edwin B., assignor.)
Marlin Firearms Corporation, The. (See Ball, George H., assignor.)
Marsile, Gustave, Los Angeles, Calif. Automobile direction indicator. No. 1,419,069; June 6.
Martin, Frederick W., Wichita, Kans. Receptacle. No. 1,418,954; June 6.
Martin, Friedrich, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Controlling apparatus for piston pumps. No. 1,418,951; June 6.
Martin, Friedrich, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Controlling apparatus for piston pumps. No 1,418,952; June 6.
Martin, Friedrich, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Controlling apparatus for piston pumps. No. 1,418,953; June 6.
Martin, William J. (See Stock, Harry A., assignor.)
Maschinenfabrik Ruti formerly Caspar Honegger. (See Honneger, Albert, assignor.)
Mason, William S., Norristown, assignor of one-third to C. B. Harding, Landsdowne, and one-third to H. Fredericks, Philadelphia, Pa. Metal-bending machine. No. 1,418,955; June 6.
Massey-Harris Company. (See Johnston, Howard M., assignor.)

Masson, Henry J., assignor to J. M. Gerard, New York, N. Y. Manufacturing carbon black, lampblack, and hydrogen. No. 1,418,385; June 6.
Matthews, Herbert, and R. J. Seator, Battle Creek, Mich. Fish holder. No. 1,418,595; June 6.
Maull, Edward N., Orlando, assignor to Skinner Machinery Company, Dunedin, Fla. Polishing machine. No. 1,418,666; June 6.
Maus, Frank, assignor of one-half to S. J. Spoelstra, San Jose, Calif. Method of and apparatus for dehydrating material. No. 1,418,386; June 6.
May, David T., assignor to Western Electric Company, Incorporated, New York, N. Y. Recording instrument. No. 1,418,725; June 6.
Mayer, William G., Pittsburgh, Pa. Truck hoist. No. 1,418,387; June 6.
Mays, William A., Austin, Tex. Oil burner. No. 1,419,070; June 6.
Mead, William H., Autaugaville, Ala. Wire tightener and twister. No. 1,418,956; June 6.
Meeder, Herbert L., assignor of three-eighths to L. S. Hall and two-eighths to J. Inglis, Denver, Colo. Starter for automobile engines. No. 1,418,449; June 6.
Meginniss, Francis R. (See Spalt, E. B., and Meginniss.)
Mensoian, George, Los Angeles, Calif. Display vehicle. No. 1,418,596; June 6.
Merifield, Martin F., Hicksville, Ohio. Baby swing. No. 1,418,318; June 6.
Merkle, Leon G., Linden, N. Y. Milk cooler. No. 1,418,957; June 6.
Merrow Machine Company, The. (See Stedman, William H., assignor.)
Mertzinger, Pierre V., Malakoff, France. Headlight. No. 1,418,319; June 6.
Merwin, George M. (See Benjamin, B. R., and Merwin.)
Meteor Mixing Machine Co. (See Trust, Josephine and H., assignors.)
Metropolitan Sewing Machine Corporation. (See Weis, John P., assignor.)
Meyer, William H., St. Louis, Mo., assignor, by mesne assignments, to The Davis Sewing Machine Company. Clothes wringer. No. 1,418,821; June 6.
Meyercord, George R., Chicago, Ill., assignor to Haskelite Manufacturing Corporation, a Corporation of New York. Method of and apparatus for gluing sheets edge to edge. No. 1,418,597; June 6.
Michell, Anthony G. M., Melbourne, Victoria, Australia. Crankless reciprocating mechanism. No. 1,418,598; June 6.
Michigan Mutual Liability Company. (See Brower, Willis A., assignor.)
Mickels, Selim A., and A. Newman, Oakland, Calif. Fruit picker. No. 1,418,599; June 6.
Midgley, Albert H., assignor of one-half to C. A. Vandervell & Company, Limited, Acton Vale, England. Self-regulating continuous-current dynamo. No. 1,419,071; June 6.
Miessner, Benjamin F., New York, N. Y. Speaking-tube apparatus for aircraft. No. 1,418,388; June 6.
Milburn, Thomas Y. (See Fields, James Y., assignor.)
Miller, Abner. (See Walsh, W., and D. H. and A. Miller.)
Miller-Chapman Company. (See Chapman, Earle E., assignor.)
Miller, David H. (See Walsh, W., and D. H. and A. Miller.)
Miller, Ernest W., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Starch-preparing apparatus. No. 1,418,320; June 6.
Miller, Henry, New York, N. Y. Device for securing and supporting doors. No. 1,418,822; June 6.
Miller, Henry B. (See Herrick, William H., assignor.)
Miller, Nicholas, Chicago, Ill. Stamp affixing device. No. 1,418,600; June 6.
Miller, Theodore H., assignor to Waterbury Buckle Co., Waterbury, Conn. Garment fastener button. No. 1,418,823; June 6.
Mills Baking Company. (See Janney, Peyton R., assignor.)
Minerals Separation North American Corporation. (See Bailey, Lewis, assignor.)
Minerals Separation North American Corporation. (See Edser, E., Sulman, and Jones, assignors.)
Minnick, Alfred, Newark, N. J., assignor to M-V All Weather Train Controller Company, Wilmington, Del. Safety auto control. No. 1,418,601; June 6.
Mitchell, Arthur K., Bronxville, assignor to St Joseph Lead Company, New York, N. Y. Dipper for shoveling machines. No. 1,418,321; June 6.
Moe, Gerhard, Eau Claire, Wis. Photographic measuring device. No. 1,418,602; June 6.
Moore, Giles S. and O.; said G. S. Moore assignor of his entire right to Automatic Sliding Trolley Company, Frankfort, Ind. Sleet cutter. No. 1,418,389; June 6.
Moore, Glenn W., Upper Alton, Ill. Towline and fastener. No. 1,418,958; June 6.
Moore, Otto. (See Moore, Giles S. and O.)
Morelock, Byron, Camden, N. J. Bean sheller. No. 1,419,072; June 6.
Morgan & Wright. (See Coe, John P., assignor.)
Morgan & Wright. (See Finn, William, assignor.)
Morgan & Wright. (See Gerard, Roy H., assignor.)
Morgan & Wright. (See Van Buskirk, Robert N., assignor.)
Morris, Pratt C., assignor to C. W. Cooper, Thomasville, Ga. Coil-box protector. No. 1,419,120; June 6.
Morrish, Charles B. (See Weiss, C. R., and Morrish.)
Mortimer, Emmet E., Woodchopper Creek, Alaska. Trap. No. 1,418,603; June 6.
Motor Recording Corporation. (See Chase, Carl C., assignor.)
Muir, Carrie A., Los Angeles, Calif. Combination electric and gas heater. No. 1,418,667; June 6.
Murphy, P. H., Company. (See Murphy, Walter P., assignor.)
Murphy, Walter P., New York, N. Y., assignor to P. H. Murphy Company, Parnassus, Pa. Car roof. No. 1,418,959; June 6.
Murray, George C., Chicago, Ill. Drawbar yoke. No. 1,418,450; June 6.
Myers, Claud M., Chicago, Ill. Cord support. No. 1,418,960; June 6.
Myers, Lewis C. (See Hess, E. B., and Myers.)
Naether, Ernest, Vevey, Switzerland. Electric-current controller. No. 1,418,726; June 6.
Nagel, W. G., Electric Company, The. (See Decker, Hugh L., assignor.)
Napier, John S. (See Hoyt, S. T., and Napier.)
Nathanson, William. (See Emmer, M., and Nathanson.)
National Blank Book Company. (See Schade, John, assignor.)
National Gauge & Equipment Company. (See Axem, John L., assignor.)
Naylor, Ralph B., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Accelerator. No. 1,418,824; June 6.
Naylor, Ralph B., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Vulcanizing rubber. No. 1,418,825; June 6.
Neal, Spencer G., New York, N. Y., assignor to Automatic Straight Air Brake Company, Wilmington, Del. Air-brake apparatus. No. 1,418,961; June 6.
Neth, George C., Dayton, Ohio. Metal-cutting-machine tool. No. 1,418,727; June 6.
Neuland, Alfons H., Glendale, assignor to Neuland Electrical Company, Inc., San Francisco, Calif. Dynamo-electric machine. No. 1,418,390; June 6.
Neuland Electrical Company. (See Neuland, Alfons H., assignor.)
New York Belting & Packing Company. (See Cobb, Henry Z., assignor.)
Newe, Robert A., Houston, Tex. Electric signal apparatus for elevators. No. 1,418,322; June 6.
Newman, Andrew. (See Mickels, S. A., and Newman.)
Ney, Andrew F., East Kew, Victoria, Australia. Machine for filling rectangular metal boxes with vestas. No. 1,418,451; June 6.
Niles-Bement-Pond Company. (See Sears, Willard T., assignor.)
Nisewanger, Jacob F., Tranquillity, Calif. Differential for vehicles. No. 1,418,452; June 6.
Nobbs, George H., Watertown, Mass. Internal-combustion engine. No. 1,418,668; June 6.
Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Diestock. No. 1,418,323; June 6.
Norcross, Crandall U., assignor to Alaska Freezer Company, Winchendon, Mass. Power unit for driving ice-cream freezers and other appliances. No. 1,418,962; June 6.
Norman, George, assignor to B. S. A. Guns Limited, Birmingham, England. Projectile for line-throwing guns. No. 1,418,963; June 6.
Norman, George, assignor to B. S. A. Guns Limited, Birmingham, England. Line-throwing apparatus. No. 1,418,964; June 6.
Norton, Charles H., assignor to Norton Company, Worcester, Mass. Machine for forming rolls. No. 1,419,073; June 6.
Norton Company. (See Chapman, William H., assignor.)
Norton Company. (See Norton, Charles H., assignor.)
Norway Welt Shoe Corporation. (See Madson, Amos, assignor.)
O'Brien, Joseph J., Springfield, Mass. Vehicle bumper. No. 1,418,453; June 6.
O'Connor, John B., assignor to Lyon Metallic Manufacturing Company, Aurora, Ill. Shelving. No. 1,418,324; June 6.
Ogden, Ellsworth P., Columbus, assignor to J. B. Owens, Zanesville, Ohio. Tunnel kiln. No. 1,418,669; June 6.
Ohio Instrument Manufacturing Company, The. (See Raus, John, assignor.)
Ohnstein, Lester, Minneapolis, Minn. Illuminated license number plate and tail light. No. 1,418,454; June 6.
Oliver Chilled Plow Works. (See Dewend, William D., assignor.)
Oliver, Richard H., Bridgeburg, Ontario, Canada. Brake beam. No. 1,418,391; June 6.
Olsen, Hans W., Momence, Ill. Pulley key lock. No. 1,418,728; June 6.
Olson, Alfred A., Cardin, Okla. Boiler cleaner. No. 1,418,670; June 6.
Olson, John A., Bergenfield, N. J., and J. E. Williamson, Yonkers, N. Y., assignors, by mesne assignments, to Stokes & Smith Company, Philadelphia, Pa. Labeling mechanism. No. 1,418,455; June 6.
Olson, John J., Belview, Minn. Garment. No. 1,418,965; June 6.
Oswald, Arthur A., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Portable radiating system. No. 1,418,729; June 6.

Ottman, Robert E., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Insulating material and making same. No. 1,418,730; June 6.
Oubridge, William A., Coventry, England. Rotary casting-machine mold. No. 1,418,826; June 6.
Overbury, Frederick C., Hillsdale, N. J., assignor to The Flintkote Company, Boston, Mass. Ornamental roofing. No. 1,418,456; June 6.
Owen, William L., assignor, by mesne assignments, to Penick & Ford, Ltd., Incorporated, New Orleans, La. Preservation in storage of sirups and molasses. No. 1,418,457; June 6.
Owens, John B. (See Ogden, Ellsworth P., assignor.)
Oyler, Charles E. (See Stenger, J. B., McCaffray, and Oyler.)
Paasche, Jens A., Chicago, Ill. Painting-booth apparatus. No. 1,418,731; June 6.
Pacific Flush Tank Company. (See Tark, Marcus B., assignor.)
Packard Motor Car Company. (See Church, Harold D., assignor.)
Packard Motor Car Company. (See Vincent, Jesse G., assignor.)
Packard Motor Car Company. (See Waldon, Sidney D., assignor.)
Paddock, Richard B., Foot Sill, Okla. Detachable link for vehicle-wheel antiskid chains. No. 1,418,392; June 6.
Palmer-Bee Company. (See McBride, Jesse E., assignor.)
Parker, Frederick R., Chicago, Ill. Relay. (Reissue.) No. 15,374; June 6.
Parker, Guy E. (See Seaholm, E. W., and Parker.)
Parks, Joseph W., Altoona, Pa. Automobile radiator cover. No. 1,418,393; June 6.
Parks, Joseph W., Altoona, Pa. Tipping hand tool. No. 1,418,394; June 6.
Passaic Metal Ware Co. (See Prince, Frank N., assignor.)
Patitz, Johann F. M., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Tractor. No. 1,419,113; June 6.
Patten, Ernest L., Malden, Mass., assignor to Wellman Company. Machine for cutting soles. No. 1,418,604; June 6.
Patten, Harry B., Westfield, Ind. Means for locking demountable rims to wheels. No. 1,418,458; June 6.
Patterson, Charles E., San Francisco, Calif. Electrically-controlled heater. No. 1,418,671; June 6.
Patterson, Martin L., Bogota, N. J., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Search-light-positioning means. No. 1,418,325; June 6.
Paulus, Herman W., Richmond Hill, N. Y., assignor to Royal Baking Powder Company. Evaporator. No. 1,418,878; June 6.
Pelterie, Robert E., Paris, France. Hydraulic pump. No. 1,418,672; June 6.
Penick & Ford, Ltd. (See Lenders, A. W. H., and Bauer, assignors.)
Penick & Ford, Ltd. (See Owen, William L., assignor.)
Perin, Donald W., Brookline, assignor, by mesne assignments, to Perin "Roloff" Company, Somerville, Mass. Removable body construction. No. 1,418,966; June 6.
Perin "Roloff" Company. (See Perin, Donald W., assignor.)
Perinan, Antonio T., South Bethlehem, Pa. Rotary cutting apparatus for metal work. No. 1,418,459; June 6.
Perry, Ira D., assignor to T. D. Bell, Chicago, Ill. Attaching device for automobile bumpers. No. 1,418,395; June 6.
Peterman, Joseph A., Brooklyn, N. Y. Sash-operating mechanism. No. 1,418,732; June 6.
Petermann, Robert J., New York, N. Y. Knitting device. No. 1,418,967; June 6.
Peters Machine & Manufacturing Company, The. (See Thiemer, William H., assignor.)
Petersen, Nels P., et al. (See Larson, Hiram A., assignor.)
Petterson, Olaf S., Denver, Colo. Vise. No. 1,418,733; June 6.
Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Reversible fulcrum. No. 1,418,734; June 6.
Peyron, Julius J. (See Ryan, Michael H., assignor.)
Pfenninger, Hermann, Wadenswil, Switzerland. Heat-storing and water-evaporating plant. No. 1,418,460; June 6.
Pflueger, Charles T., and W. L. Adams, assignors to The Enterprise Manufacturing Company, Akron, Ohio. Artificial bait. No. 1,418,326; June 6.
Philipps, Frank, Hammond, Ind. Auto heel rest. No. 1,418,968; June 6.
Phillips, John E., Birmingham, England. Guard for power presses. No. 1,418,327; June 6.
Philo, Clinton M., and F. O. Bowers, Lansing, Mich. Game. No. 1,419,074; June 6.
Piel, G., Company, The. (See Long, George F., assignor.)
Pierce, Winslow S., Jr., Bayville, N. Y. Gearing. No. 1,418,461; June 6.
Pilsbry-Becker Engineering & Supply Company. (See McGinnis, Walter R., assignor.)
Pittman, Carl L., De Leon, Texas. Safety attachment for railway-car trucks. No. 1,418,827; June 6.
Pittsburgh Oil Refining Corporation. (See Boileau, Walter K., assignor.)
Plaisted, Harold M., assignor of forty-nine one-hundredths to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Fine grinder. No. 1,418,735; June 6.
Plumb, Herbert F., Drumheller, Alberta, Canada. Call annunciator. No. 1,418,969; June 6.
Pool, J. Corbley, Santa Barbara, Calif. Oil separator. No. 1,418,970; June 6.
Potstada, George, Oakland, Calif. Electric-cord retainer. No. 1,418,462; June 6.
Powell, Joseph M., Brooklyn, Ind., assignor to Eagle Iron Works, Des Moines, Iowa. Cutter for shale planers. No. 1,418,463; June 6.
Power Specialty Company. (See Bell, John E., assignor.)
Power, Thomas J., Philadelphia, Pa. Floor-planing machine. No. 1,418,328; June 6.
Powers, Robert T., North Oxford, Mass. Lug-strap support. No. 1,418,396; June 6.
Praetorius, Kurt, Dresden, Germany. Wall of blocks of wood and similar material. No. 1,418,464; June 6.
Pressure Proof Piston Ring Company. (See Hall, Andrew F., assignor.)
Price, Oliver O., Orosi, Calif. Road scraper. No. 1,418,465; June 6.
Prince, Frank N., assignor to Passaic Metal Ware Co., Passaic, N. J. Support for box covers. No. 1,418,673; June 6.
Prosser, Charles R., Melbourne, Victoria, Australia. Device for the delivery of tickets. No. 1,419,075; June 6.
Psilander, Charles A., and W. M. Henderson, assignors to William Wharton, Jr., & Company, Incorporated, Easton, Pa. Traction wheel. No. 1,418,971; June 6.
Puckette, Charles C., Salford, assignor of one-half to Conner Magneto & Ignition, Limited, Stoke, Warwickshire, England. Magneto-electric machine for internal-combustion engines. No. 1,419,076; June 6.
Pyle-National Company, The. (See Dake, Charles W., assignor.)
Rahn, Arthur J., et al. (See Larson, Hiram A., assignor.)
Rand, James H., North Tonawanda, N. Y. Index. No. 1,418,466; June 6.
Rand, James H., North Tonawanda, N. Y. Index. No. 1,418,467; June 6.
Ratajczak, Felix F. (See Sworski, S. F., and Ratajczak.)
Raus, John, assignor to The Ohio Instrument Manufacturing Company, Cleveland, Ohio. Electrical connector. No. 1,418,468; June 6.
Rayfield, Charles L., assignor to Beneke & Kropf Manufacturing Company, Chicago, Ill. Circulating system for internal-combustion engines. No. 1,418,397; June 6.
Ream, Fred H., Dayton, Ohio. Snubber. No. 1,418,828; June 6.
Reardon, Fred A., Haverhill, Mass., assignor to Hamel Shoe Machinery Company. Shoe machine. No. 1,418,736; June 6.
Reasner, Clyde W., Chicago, Ill. Ash tray. No. 1,418,737; June 6.
Rector, Thomas M. (See Coggeshall, G. W., and Rector.)
Reid, Alexander C., assignor to Leich Electric Co., Genoa, Ill. Rectifier system. No. 1,418,398; June 6.
Reidenbach, Herman O., assignor to L. A. Young Industries, Inc., Detroit, Mich. Spring-seat construction. No. 1,418,469; June 6.
Remington Typewriter Company. (See Barr, John H., assignor.)
Reyburn, John R., Fairfield, assignor to American Chain Company, Incorporated, Bridgeport, Conn. Coiled-wire sash-chain-attaching device. No. 1,418,972; June 6.
Reynolds, Stephen R., Enid, Mont. Machine for bending wire. No. 1,418,470; June 6.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,418,471; June 6.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Filling clamping, and parting mechanism for looms. No. 1,418,472; June 6.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Warp stop motion. No. 1,419,077; June 6.
Rice, William H., Tiger, Ga. Cofferdam construction. No. 1,418,879; June 6.
Richey, William F., Ashtabula, Ohio. Brick-scoring mechanism. No. 1,418,880; June 6.
Richter, William H., assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa. Interrupter mechanism. No. 1,418,881; June 6.
Riedler, Gottlieb, Hector, Minn. Runner-attaching device for the axles of wagons. No. 1,418,829; June 6.
Riesterer, Robert A., Vancouver, British Columbia, Canada. Film-cleaning device. No. 1,418,830; June 6.
Riley, Robert S., assignor to Sanford Riley Stoker Co., Worcester, Mass. Underfeed stoker. No. 1,418,831; June 6.
Risk, Roy R., Shreveport, La. Switch. No. 1,418,674; June 6.
Rittman, Walter F., assignor to Synthetic Hydrocarbon Company, Pittsburgh, Pa. Treatment of hydrocarbons. No. 1,419,122; June 6.
Rittman, Walter F., assignor to Synthetic Hydro-Carbon Company, Pittsburgh, Pa. Manufacture of benzene, toluene, and other aromatic hydrocarbons and the like. No. 1,419,123; June 6.

Rittman, Walter F., assignor to Synthetic Hydrocarbon Company, Pittsburgh, Pa. Treatment of xylene and other similar hydrocarbons. No. 1,419,124; June 6.
Rittman, Walter F., assignor to Synthetic Hydrocarbon Company, Pittsburgh, Pa. Treating hydrocarbons. No. 1,419,125; June 6.
Rittman, Walter F., New York, N. Y., assignor to Synthetic Hydro-Carbon Company, Pittsburgh, Pa. Manufacture of light hydrocarbons and the like. No. 1,419,121; June 6.
Robb, John F., Cleveland Heights, Ohio. Concrete-chute distributing system. No. 1,418,738; June 6.
Roberts, Charles B., Berkeley, Calif. Scraper. No. 1,418,973; June 6.
Robertson, H. H., Company. (See Young, James H., assignor.)
Robins Conveying Belt Company. (See Acken, Wiley S., assignor.)
Roby, Everett H. (See Lockhart, C. F., and Roby.)
Rockwell, Albert F., Bristol, Conn., assignor, by mesne assignments, to Standard Steel and Bearings Incorporated, Wilmington, Del. Ball-lapping machine. No. 1,419,078; June 6.
Rodgers, James D., Silverton, Oreg. Cultivator. No. 1,418,675; June 6.
Rodow, Abraham, New York, N. Y. Rasp file. No. 1,418,974; June 6.
Roeth, Albert H., New York, N. Y. Building block. No. 1,419,079; June 6.
Rôka, Koloman, assignor to the firm of Holzoverkohlungs-Industrie Actien-Gesellschaft, Konstanz, Badenia, Germany. Chlorination of acetylene. No. 1,418,882; June 6.
Rolfes, George H., assignor to Handlan-Buck Manufacturing Company, St. Louis, Mo. Lamp. No. 1,418,832; June 6.
Rolls-Royce Limited. (See Hall, Horace C., assignor.)
Romine Manufacturing Co. (See Burgess, Harry A., assignor.)
Rose, Harold J. (See Sperr, F. W., Jr., and Rose.)
Rose, Thomas W., Savannah, Ga. Valve gear. No. 1,418,473; June 6.
Rosenberg, Heyman, New York, N. Y. Punch. No. 1,418,474; June 6.
Royal Baking Powder Company. (See Paulus, Herman W., assignor.)
Royal Typewriter Company. (See Hess, E. B., and Myers, assignors.)
Ruebsamen, Albert. (See Woods, C. H., and Ruebsamen.)
Ruff, Frederick A., Newark, N. J. Combined mat and luggage carrier. No. 1,418,676; June 6.
Rupert, Dale M., et al. (See Igney, William D. F., assignor.)
Rupert, Demus R., Huntington, Ind. Railway-crossing signal mechanism. No. 1,418,475; June 6.
Russell, Frank N., Elmira, N. Y. Trolley wheel. No. 1,418,833; June 6.
Russell-Weber Steel Products Company. (See Weber, Gottlieb, assignor.)
Russell, William C., East Sheen, England. Adjustable propeller device. No. 1,418,399; June 6.
Ryan, Michael H., assignor of one-tenth to J. J. Peyron, San Bernardino, Calif. Air-brake detail. No. 1,418,400; June 6.
Saco-Lowell Shops. (See Hedrick, Charles C., assignor.)
Sadler, Orin W., Jr., Belle Vernon, Pa. Apparatus for polishing metal articles. No. 1,418,677; June 6.
Sandefur, William M., Durant, Okla. Tool for grinding watch crystals. No. 1,418,975; June 6.
Sanford Riley Stoker Co. (See Riley, Robert S., assignor.)
Sanitary Dishwashing Machine Company. (See Vaudreuil, John, assignor.)
Satchwell, Leonard, Burry Port, Caermarthen, Wales. Manufacture of grid resistances. No. 1,418,834; June 6.
Schade, John, assignor to National Blank Book Company, Holyoke, Mass., having as trustees F. B. Towne, E. S. Towne, J. M. Towne, and F. W. Wilson. Friction clutch for telescoping elements. No. 1,418,329; June 6.
Schaefer, George, Russell, Kans. Standing-grain thrashing mechanism. No. 1,418,476; June 6.
Schauman, Karl O., San Francisco, Calif. Impact-actuated control mechanism for vehicles. No. 1,418,678; June 6.
Scheid, Adolph, Auburn, Ind. Range-boiler stand. No. 1,418,883; June 6.
Schein, Alexander E., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Resilient flywheel. No. 1,418,330; June 6.
Schenck, Charles, and L. Fine, assignors, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa. Wheel. No. 1,418,331; June 6.
Schenkel, Moritz, Charlottenburg, near Berlin, assignor to Siemens Schuckterwerke G. m. b. H., Berlin, Germany. Transformation of direct current. No. 1,418,477; June 6.
Schidrowitz, Philip, assignor of one-half to Catalpo Limited, London, England. Manufacture of caoutchouc and caoutchouc-like products. No. 1,418,976; June 6.
Schipper, George A., Aurora, Ind. Irreversible steering gear for Ford cars. No. 1,418,679; June 6.
Schmidt, Karl H., Duisburg, Germany. Pump for inflating the tires of vehicles. No. 1,418,884; June 6.
Schmidt, Paul C., New York, N. Y. Sounding toy. No. 1,418,401; June 6.
Schön, Ludwig, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Electric locomotive. No. 1,418,977; June 6.
Schoonmaker, William H., Montclair, N. J. Heating system. No. 1,418,835; June 6.
Schulze, John F. W., New York, N. Y., assignor to The Barrett Company. Fractional condensation. No. 1,418,885; June 6.
Schweiger, John F., Flora, Ind. Farm gate. No. 1,418,332; June 6.
Scoggan, Richard R., Jeffersonville, Ind., assignor to Kentucky Switch & Signal Co. Inc., St. Matthews, Ky. Automatic track switch. No. 1,418,978; June 6.
Scott, Charles S. See Gettle, H. R., and Scott.)
Scott, Philip N., Westwood, assignor to W. C. Hall, Haworth, and J. De Turck, Hackensack, N. J. Distributor for ignition systems. No 1,418,836; June 6.
Scott, William R., Houston, Tex. Ballast car. No. 1,418,402; June 6.
Scott, William S., Maplewood, N. J. Method of and apparatus for obtaining power from the surf. No. 1,418,680; June 6.
Scriven, Edward O., assignor to Western Electric Company, Incorporated, New York, N. Y. Oscillation generator. No. 1,418,739; June 6.
Seaholm, Ernest W., and G. E. Parker, assignors to General Motors Corporation, Detroit, Mich. Tire carrier. No. 1,419,080; June 6.
Seamless Rubber Company, The. (See Caldwell, James R., assignor.)
Searles, Raymond R., assignor to The Fafnir Bearing Company, New Britain, Conn. Ball bearing. No. 1,418,886; June 6.
Sears, Willard T., Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Supporting and clamping mechanism for drilling machines. No. 1,418,837; June 6.
Seator, Robert J. (See Matthews, H., and Seator.)
Seferlis, Peter J., Ithaca, N. Y. Key-ring holder. No. 1,418,979; June 6.
Sellew, Roland W., assignor to The Fafnir Bearing Company, New Britain, Conn. Ball-lapping machine. No. 1,418,887; June 6.
Sellew, Roland W., assignor to The Fafnir Bearing Company, New Britain, Conn. Ball bearing. No. 1,418,888; June 6.
Setz, Hans R., Manitowoc, Wis. Double-acting, two-cycle internal-combustion engine. No. 1,418,838; June 6.
Severance, Malvern W., Cleveland, Ohio. Phonograph needle and holder structure. No. 1,418,478; June 6.
Severson, Elmer, Deerfield, Wis. Lead truck for harvesters and binders. No. 1,418,889; June 6.
Seymour, James M., Newark, N. J. Method and means for ventilating vehicular tunnels. No. 1,418,980; June 6.
Sharp, Jacob, assignor of one-fourth to A. Skilnyk and one-fourth to W. Fedak, Fort William, Ontario, Canada. Farm machinery. No. 1,418,981; June 6.
Sharp, Robert E., Esbon, Kans. Nonskid mud and snow device. No. 1,418,839; June 6.
Shelton, William G., New York, N. Y. Display or advertising device. No. 1,418,740; June 6.
Shepherd, Frank D., Aurora, Ill. Poppet-valve mechanism for internal-combustion engines. No. 1,418,479; June 6.
Sherman, John Q., Dayton, Ohio. Manifold attachment for typewriters. No. 1,418,480; June 6.
Sherman, John Q., Dayton, Ohio. Printing and punching manifolding paper. No. 1,418,481; June 6.
Shibiya, Robin I., Omaha, Nebr. Chain pliers. No. 1,419,081; June 6.
Shorday, Walter W., Lawndale, Pa. Valve. No. 1,418,482; June 6.
Sibley, Robert L. (See Bedford, C. W., and Sibley.)
Siemens Schuckertwerke G. m. b. H. (See Schenkel, Moritz, assignor.)
Simpson, John D. N., Spartanburg, S. C. Automatic automobile headlamp. No. 1,418,982; June 6.
Skilnyk, Andrew, et al. (See Sharp, Jacob, assignor.)
Skinner Machinery Company. (See Maull, Edward N., assignor.)
Sleivis, Joseph, Chelsea, Mass. Combination lock. No. 1,418,681; June 6.
Smith, Edwin B., assignor to The Marion Machine Foundry and Supply Company, Marion, Ind. Grate frame. No. 1,418,483; June 6.
Smith, Eugenia M., Waseca, Minn. Mail sack. No. 1,418,403; June 6.
Smith, Harry J., Lakewood, Ohio. Mounting for wheels. No. 1,418,404; June 6.
Smith, Henry V., Chester, Pa. Adjustable surgical splint. No. 1,418,486; June 6.
Smith, Horace L., and H. L. Smith, Jr., Prince George County, Va. Apparatus for shelling nuts. No. 1,418,840; June 6.
Smith, Horace L., Jr. (See Smith, Horace L.)
Smith, James T., S. S. Wilkins, and J. M. Manning, Portland, Oreg. Shock absorber. No. 1,418,484; June 6.
Smith, John H., assignor, by mesne assignments, to The Eclipse Interchangeable Counterbore Company, Detroit, Mich. Boring tool. No. 1,418,485; June 6.
Smith, Peter J., assignor to Commonwealth Edison Company, Chicago, Ill. Electrical fuse. No. 1,419,114; June 6.
Smith, Robert G., Newark, N. J. Tool. No. 1,418,983; June 6.

Smith, William A., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Rock drill. No. 1,418,333; June 6.
Smith's, John E., Sons Company. (See Knowlton, Eugene W., assignor.)
Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. (Reissue.) No. 15,375; June 6.
Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. (Reissue.) No. 15,376; June 6.
Societe Chimique des Usines du Rhone (anciennement Gilliard P. Monnet et Cartier). (See Altwegg, J., and Landrivon, assignors.)
Societe Chimique des Usines du Rhone (anciennement Gilliard P. Monnet et Cartier). (See Bidaud, Florentin, assignor.)
Society Durand & Huguenin, S. Q. (See Vaucher, C., and Speitel, assignors.)
Sohm, Alfred L., Chicago, Ill. Keyless clock. No. 1,418,487; June 6.
Somerville, Robert. (See Hanks, G. R., and Somerville.)
Southard, George B., Los Angeles, Calif. Device for controlling the growth of plant roots. No. 1,418,841; June 6.
Spaid, Charles E., Sioux Falls, S. Dak. Automobile radiator attachment. No. 1,418,334; June 6.
Spalt, Edward B., and F. R. Meginniss, assignors to Geo. Spalt & Sons, Inc., Albany, N. Y. Control for refrigerating apparatus. No. 1,418,488; June 6.
Spalt, Geo., & Sons, Inc. (See Spalt, E. B., and Meginniss, assignors.)
Speitel, René. (See Vaucher, C., and Speitel.)
Sperr, Frederick W., Jr., and H. J. Rose, assignors to The Koppers Company, Pittsburgh, Pa. Electric furnace. No. 1,418,984; June 6.
Sperry, Elmer A., Brooklyn, N. Y. Automatic pilot for aeroplanes. No. 1,418,335; June 6.
Sperry Gyroscope Company, The. (See Patterson, Martin L., assignor.)
Sperry Gyroscope Company, The. (See Schein, Alexander E., assignor.)
Sperry Gyroscope Company, The. (See Sperry, Lawrence B., assignor.)
Sperry, Lawrence B., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Aerial torpedo. No. 1,418,605; June 6.
Spoelstra, Siebren J. (See Maus, Frank, assignor.)
Springer, Franklin W., Minneapolis, Minn. Liquid-fuel feed system for gas engines. No. 1,418,489; June 6.
Sproul, William C., Rockford, Ill. Milling machine. No. 1,418,490; June 6.
Stage, Harold I., Easton, Pa. Pneumatic drill column. No. 1,418,336; June 6.
Stahl, Karl, assignor to the firm Luftschiffbau Zeppelin Gesellschaft mit beschrankter Haftung, Friedrichshafen, Germany. Ballast container for aircraft. No. 1,418,491; June 6.
Stallman, Granville H., Chicago, Ill. Rotary pump or compressor. No. 1,418,741; June 6.
Standard Oil Company. (See Diggs, Sterling H., assignor.)
Standard Parts Company, The. (See Keys, Walter C., assignor.)
Standard Parts Company, The. (See Theberath, Joseph C., assignor.)
Standard Steel and Bearings Incorporated. (See Rockwell, Albert F., assignor.)
Standard Underground Cable Company. (See Fisher, H. W., and Atkinson, assignors.)
Staude, Edwin G., Minneapolis, Minn. Tractor attachment for automobiles. No. 1,418,842; June 6.
Staude, Edwin G., Minneapolis, Minn. Line drive for tractors. No. 1,418,843; June 6.
Staude, Edwin G., Minneapolis, Minn. Attachment for paper-slotting machines. No. 1,418,844; June 6.
Stedman, William H., Mansfield, assignor to The Merrow Machine Company, Hartford, Conn. Sewing machine. No. 1,418,682; June 6.
Steinberg, Milton I. (See Barnett, A., and Steinberg.)
Steinle, Adolf, assignor to the firm of Carl Zeiss, Jena, Germany. Machine for cutting noncircular glasses. No. 1,418,492; June 6.
Steinmetz, Joseph A., Philadelphia, Pa. Snow disposal. No. 1,418,337; June 6.
Stenger, James B., E. McCaffray, and C. E. Oyler, assignors to Hamilton Cassard & Co., Baltimore, Md. Machine for cleaning or hackling fiber. No. 1,418,493; June 6.
Stephenson, Henry P. (See Houston, A., and Stephenson.)
Stetson, George W., Hingham, Mass. Water-level controller. No. 1,418,845; June 6.
Stevens, Charles W., assignor to Stevens Partition and Floor Deadener Co., Chicago, Ill. Floor construction. No. 1,418,742; June 6.
Stevens, Jennie E., Ben Lomond, Calif. Artificial flower. No. 1,418,846; June 6.
Stevens Partition and Floor Deadener Co. (See Stevens, Charles W., assignor.)
Stevens, William H., Hollidaysburg, Pa. Tool handle. No. 1,418,683; June 6.
Stewart-Warner Speedometer Corporation. (See Wood, Andrew C., assignor.)
Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Warp stop motion for looms. No. 1,418,494; June 6.
Stimson, Harry W., West Allis, Wis. Tool. No. 1,418,847; June 6.
St. Joseph Lead Company. (See Mitchell, Arthur K., assignor.)
St. Louis Brass Manufacturing Company. (See Guth, Edwin F., assignor.)
Stock, Harry A., assignor of one-half to W. J. Martin, Steelton, Pa. Process of and apparatus for tempering steel rails. No. 1,418,985; June 6.
Stock, Harry A., assignor of two-thirds to W. J. Martin, Steelton, Pa. Process of and apparatus for tempering metallic tubes, tubular containers, and sheets. No. 1,418,986; June 6.
Stokes & Smith Company. (See Olson, J. A., and Williamson, assignors.)
Stone, George W., Gillette, Wyo. Transmission gearing. No. 1,418,338; June 6.
Stoner, Paul, assignor to Landis Tool Company, Waynesboro, Pa. Tarry device. No. 1,419,082; June 6.
Story, William M., Wabash, Ind. Wire-fence attachment. No. 1,418,684; June 6.
Stout, George W., Merchantville, N. J. Package tie. No. 1,418,743; June 6.
Straka, Paul. (See Straka, Tony and P.)
Straka, Tony and P., Fairchance, Pa. Clothes wringer. No. 1,418,890; June 6.
Stromberg Motor Devices Company. (See Edwards, Francis E., assignor.)
Strong, Gertrude G., et al. (See Gunderson, Julia A., assignor.)
Stuart, James. (See Bach, E., and Stuart.)
Studinka, Karl, Donora, Pa. Tool holder. No. 1,418,987; June 6.
Sturt, Alfred T., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. Spring bracket. No. 1,419,083; June 6.
Sudler, Charles E. (See Sudler, Emory and C. E.)
Sudler, Emory and C. E., Tarrytown, N. Y. Automatic register for liquids. No. 1,418,495; June 6.
Sulman, Henry L. (See Edser, E., Sulman, and Jones.)
Sulzer, Albert F., assignor to Eastman Kodak Company, Rochester, N. Y. Antistatic photographic film. No. 1,418,405; June 6.
Summers, Robert A., Van Nuys, Calif. Adjustable stilt. No. 1,418,685; June 6.
Superior Refrigerating Company, The. (See Andrews, Frank W., assignor.)
Swallow, William H., Johnstown, Pa. Spirit wheel. No. 1,418,686; June 6.
Swan, John H., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. Aerial torpedo or drop bomb. No. 1,418,606; June 6.
Swatzell, James F., Decatur, Ala. Portable cylinder reboring and regrinding machine. No. 1,418,744; June 6.
Swenarton, Waitstill H., Montclair, N. J. Making arsenate insecticides. No. 1,418,848; June 6.
Sworski, Stanley F., and F. F. Ratajczak, Minneapolis, Minn. Retort for gas-producing apparatus. No. 1,418,745; June 6.
Synthetic Hydro-Carbon Company. (See Rittman, Walter F., assignor.)
Szczurek, Joe, Chicago Heights, Ill. Door opener for railways. No. 1,418,406; June 6.
Talley, William A. (See Finch, J. W., and Talley.)
Tark, Marcus B., Philadelphia, Pa., assignor to Pacific Flush Tank Company, Chicago, Ill. Filtration apparatus. No. 1,418,687; June 6.
Tarte, James A., Blaine, Wash. Deflecting damper for pipeless furnaces. No. 1,418,988; June 6.
Taylor, John M., Ardmore, Pa., assignor to Diamond State Fibre Company, Elsmere, Del. Laminated fiber product and making the same. No. 1,418,891; June 6.
Taylor-Wharton Iron and Steel Company. (See Hanks, G. R., and Somerville, assignors.)
Technical Research Works Limited. (See Bolton, E. R., and Lush, assignors.)
Templeton, Charles L., Minneapolis, Minn. Toy target. No. 1,418,339; June 6.
Terzian, Harutyun G. (See Evans, O. B., and Terzian.)
Theberath, Joseph C., assignor to The Standard Parts Company, Cleveland, Ohio. Welding torch. No. 1,418,688; June 6.
Thenis, Matthias, North Vernon, Ind. Pipe. No. 1,418,746; June 6.
Thiemer, William H., assignor to The Peters Machine & Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,418,689; June 6.
Thomas & Betts Co., The. (See Thomas, George C., Jr., assignor.)
Thomas, Andy Z., Mapleton, Ill. Toy aeroplane. No. 1,418,849; June 6.
Thomas, Avery H., Houston, Tex. Elevator. No. 1,419,115; June 6.
Thomas, George C., Jr., assignor to The Thomas & Betts Co., Elizabeth, N. J. Electrical connecting device. No. 1,418,989; June 6.
Thomas, George C., Jr., assignor to The Thomas & Betts Co., Elizabeth, N. J. Connector for electrical conduits, etc. No. 1,418,990; June 6.
Thompson, George H., and J. Currie, Seattle, Wash. Screw propeller. No. 1,418,991; June 6.

Thrasher, Elmer E., South Cumberland, Md. Attacher and automatic sealer for camera films. (Reissue.) No. 15,377; June 6.
Thurber, Luman T., Brookline, Mass. Photographic enlarger. No. 1,418,690; June 6.
Time-Rite Manufacturing Company. (See Goldstein, Abraham S., assignor.)
Tisch, George C. L., assignor to Tisch Machine Tool and Die Works, Elizabeth, N. J. Jacquard link and drum. No. 1,419,084; June 6.
Tisch Machine Tool and Die Works. (See Tisch, George C. L., assignor.)
Tollagsen, Olaf, Chicago, Ill. Percolator. No. 1,418,850; June 6.
Toro Motor Company. (SeeMcCartney, Elmer B., assignor.)
Townsend, John S., assignor to Whiting Corporation, Harvey, Ill. Combined clutch and brake. No. 1,418,747; June 6.
Townsend, Paul V., Anderson, Ind. Tool holder for lathes. No. 1,418,992; June 6.
Trcka, Frank J. (See Hodgkinson, Otred, assignor.)
Tregoe, Benjamin B., East Orange, N. J., and J. D. Carroll, New York, assignors of one-third to J. Henderson, New York, N. Y. Electric time switch for auto lights. No. 1,418,748; June 6.
Trenor, Albert D., New York, N. Y., assignor to J. H. Hammond, Jr., Gloucester, Mass. Predirecting system for torpedoes. No. 1,418,851; June 6.
Trumbull Electric Mfg. Co., The. (See Getchell, Benjamin E., assignor.)
Trust, Henry. (See Trust, Josephine and H.)
Trust, Josephine and H., Park Ridge, N. J., assignors, by mesne assignments, to Meteor Mixing Machine Co., Inc. Food machine. No. 1,418,749; June 6.
Türck, Eugen, Langerfeld, near Barmen, and E. Bösebeck, Barmen, Germany. Lace-braiding machine. No. 1,418,521; June 6.
Turner Machine Company. (See Craw, Frank C., assignor.)
Underwood Typewriter Company. (See Corcoran, Cornelius B., assignor.)
Underwood Typewriter Company. (See Wood, Alfred J., assignor.)
Union Switch & Signal Company, The. (See McCann, Ronald A., assignor.)
United Engineering & Foundry Company. (See Jones, Lloyd, assignor.)
United Gas Improvement Company, The. (See Evans, O. B., and Terzian, assignors.)
United Shoe Machinery Corporation. (See Brunell, Joseph, assignor.)
Universal Shoe Plate Company, The. (See West, Mansfield M., assignor.)
Unser, Edward C., River Edge, N. J. Lining for traction vehicles. No. 1,419,085; June 6.
Valois, Félix E., Haverhill, assignor to Hamel Shoe Machinery Company, Lynn, Mass. Presser-foot lock. No. 1,418,750; June 6.
Valois, Félix E., Haverhill, assignor to Hamel Shoe Machinery Company, Lynn, Mass. Awl motion. No. 1,418,751; June 6.
Valois, Félix E., Haverhill, assignor to Hamel Shoe Machinery Company, Lynn, Mass. Shuttle mechanism. No. 1,418,752; June 6.
Van Buskirk, Robert N., Detroit, Mich., assignor to Morgan & Wright. Device for removing tires from molds. No. 1,418,753; June 6.
Vandervell, C. A., & Company. (See Midgley, Albert H., assignor.)
Van Dyke, Frank G., Detroit, Mich. Electric heater. No. 1,418,496; June 6.
Vangiesen, Charles, Caro, Mich. Foldable wheel-barrow. No. 1,418,754; June 6.
Vaucher, Charles, and R. Speitel, assignors to the Society Durand & Huguenin S. Q., Basel, Switzerland. Halogen derivatives of basic acridine dyestuffs and making same. No. 1,418,852; June 6.
Vaudreuil, John, assignor to Sanitary Dishwashing Machine Company, Milwaukee, Wis. Soaping device. No. 1,418,497; June 6.
Verret, Nicholas J., Memphis, Tenn. Gas generator for oil burners. No. 1,418,407; June 6.
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. No. 1,418,408; June 6.
Voelchert, Litta L., Manitowoc, Wis. Bubble blower. No. 1,418,755; June 6.
Von Fremery, Hermann, Schloss Spindlhof, near Regenstauf, Germany. Ball bearing for the rudder surfaces of aircraft. No. 1,418,993; June 6.
Wadsworth, George W. (See Borgen, H., and Wadsworth.)
Wagner, Max, Chicago, Ill. Clutch pedal control for automobiles. No. 1,418,340; June 6.
Wakefield, Frank T., Pittsburgh, Pa. Game apparatus. No. 1,418,409; June 6.
Waldon, Sidney D., assignor to Packard Motor Car Company, Detroit, Mich. Carburetor. No. 1,418,756; June 6.
Wales Company, The. (See Wales, Nathaniel B., assignor.)
Wales, Nathaniel B., Boston, Mass., assignor to The Wales Company, Kalamazoo, Mich. Thermostatic pilot-light control. No. 1,418,994; June 6.
Wales, Nathaniel B., Boston, Mass., assignor to The Wales Company, Kalamazoo, Mich. Automatic gas-burning-heating system. No. 1,419,116; June 6.
Walker, William L., New York, N. Y. Vault light. No. 1,418,341; June 6.
Wallace, Albert J., Algonac, Mich. Receptacle cover. No. 1,418,498; June 6.
Wallace, Anne R., Tyrone, Pa. Protective light armor. No. 1,418,995; June 6.
Wallace, John B., Mukwonago, Wis. Attachment for plows. No. 1,418,410; June 6.
Walsh, William, D. H. Miller, and A. Miller, Los Angeles, Calif. Mold support. No. 1,419,086; June 6.
Walter, Harrison B., Philadelphia, Pa., assignor to Fibre Container Company. Multiple stapling machine. No. 1,418,853; June 6.
Walton, John R., Wichita, Kans. Cultivator. No. 1,418,342; June 6.
Ward, C. C., et al. (See Blades, Alvin C., assignor.)
Ward, Willis C., Orchard Lake, Mich. Andiron. No. 1,418,411; June 6.
Warner, James G., West Union, W. Va. Tool for slitting casings. No. 1,418,757; June 6.
Warrington, Chester H. (See Warrington, George and C. H.)
Warrington, George and C. H., Washington, D. C.; said G. Warrington assignor to said C. H. Warrington. Timing device for hydrocarbon engines. No. 1,418,996; June 6.
Washburn, Frederick G., Los Angeles, Calif. Carburetor. No. 1,418,499; June 6.
Waterbury Buckle Co. (See Maltby, Julius, assignor.)
Waterbury Buckle Co. (See Miller, Theodore, assignor.)
Watkins, Raymond H., Somerville, Mass. Spring suspension for vehicles. No. 1,418,758; June 6.
Watrous, Agnes B., executrix. (See Watrous, Edward L.)
Watrous, Edward L., deceased, El Paso, Tex., A. B. Watrous, executrix. Metal coating and apparatus therefor. No. 1,418,412; June 6.
Watson, Oliver E., Dayton, Ohio. Automobile radius rod. No. 1,418,759; June 6.
Weaver, William W. (See Wright, E. B., and Weaver.)
Webb, William R., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose ether solvent and composition. No. 1,418,413; June 6.
Weber, Gottlieb, assignor, by mesne assignments, to Russell-Weber Steel Products Company, Youngstown, Ohio. Automatic spike-making machine. No. 1,418,500; June 6.
Webster, Joseph S., and H. Hunt, Seattle, Wash. Combined wheel and tire. No. 1,418,854; June 6.
Weidenthal, Harold G., Cleveland, Ohio, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Electric furnace. (Reissue.) No. 15,378; June 6.
Weinshenk, Sampson, Chicago, Ill. Mattress. No. 1,418,501; June 6.
Weis, John P., Nyack, N. Y., assignor of one-half to Metropolitan Sewing Machine Corporation, Dover, Del. Work-holding foot mechanism. No. 1,419,087; June 6.
Weis, John P., Nyack, N. Y., assignor of one-half to Metropolitan Sewing Machine Corporation, Dover, Del. Overstitch mechanism. No. 1,419,088; June 6.
Weiss, Charles R., Indianapolis, Ind., and C. B. Morrish, Philadelphia, Pa., assignors to Link-Belt Company, Chicago, Ill. Automatic oiler for chains. No. 1,418,892; June 6.
Weiss, John M., New York, N. Y., assignor to The Barrett Company. Distillation process and product thereof. No. 1,418,893; June 6.
Weldon, Williams, and Lick. (See Lick, Captilles A., assignor.)
Wellman Company. (See Patten, Ernest L., assignor.)
Wells, Alfred A., Montclair, N. J., assignor, by mesne assignments, to S. B. Hunt, trustee, Mount Kisco, N. Y. Making unsaturated hydrocarbon material. No. 1,418,414; June 6.
Wendel, Adolph, Spencer, Wis. Hay loader. No. 1,418,997; June 6.
Wennerby, Arthur O. L., Halmstad, Sweden. Two or multi cylinder internal-combustion engine. No. 1,418,415; June 6.
Wert, William W., Dayton, Ohio. Aeroplane. No. 1,418,502; June 6.
Wertheimer, Sydney B., Brooklyn, N. Y. Vanity case and bouquet holder. No. 1,418,760; June 6.
West, Mansfield M., assignor to The Universal Shoe Plate Company, Cleveland, Ohio. Shoe plate. No. 1,418,894; June 6.
Western Electric Company. (See Hampton, Leon N., assignor.)
Western Electric Company. (See May, David T., assignor.)
Western Electric Company. (See Oswald, Arthur A., assignor.)
Western Electric Company. (See Ottman, Robert E., assignor.)
Western Electric Company. (See Scriven, Edward O., assignor.)
Western Electric Company. (See Williams, Henry L. S., assignor.)
Western Electric Company. (See Williams, Robert R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Weidenthal, Harold G., assignor.) (Reissue.)

Weston, Harvard F., Newton Center, Mass. Heel lining for repairing shoes. No. 1,418,855; June 6.
Wharton, William, Jr., & Co. (See Henderson, William M., assignor.)
Wharton, William, Jr. & Company. (See Psilander, C. A., and Henderson, assignors.)
White, Ira B., Fort Worth, Tex. Grain-car-door opener. No. 1,418,343; June 6.
White, William M., Milwaukee, Wis. Centrifugal pump. No. 1,418,344; June 6.
Whiteman, George W. (See Hyle, J. A., and Whiteman.)
Whiting Corporation. (See Townsend, John S., assignor.)
Wignall, Joseph S., Jr., and O. E. McClellan, Payson, Utah. Hydraulic clutch. No. 1,418,761; June 6.
Wilhelm, Karl F., Stralsund, Germany. Oil and like extractor. No. 1,418,503; June 6.
Wilkins Sylvester S. (See Smith, J. T., Wilkins, and Manning.)
Willard, Charles F., New York, N. Y., assignor to L-W-F. Engineering Company, Inc., College Point, Long Island, N. Y. Landing gear for aeroplanes. No. 1,418,762; June 6.
Williams, Amos, Sawtelle, Calif. Lawn sprinkler. No. 1,418,763; June 6.
Williams, Charles E., assignor to William L. Gilbert Clock Company, Winsted, Conn. Metal clock. No. 1,418,895; June 6.
Williams, Henry L. S., Montreal, Quebec, Canada, assignor to Western Electric Company, Incorporated, New York, N. Y. Attachment for telephone hook switches. No. 1,418,764; June 6.
Williams, Milton F., assignor to Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Feed grinder. No. 1,419,089; June 6.
Williams Patent Crusher & Pulverizer Company. (See Plaisted, Harold M., assignor.)
Williams Patent Crusher & Pulverizer Co. (See Williams, Milton F., assignor.)
Williams, Robert R., Roselle, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Covering machine. No. 1,419,090; June 6.
Williamson, John E. (See Olson, J. A., and Williamson.)
Williamson, Robert B., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Dynamo-electric machine. No. 1,418,856; June 6.
Williamson, Robert B., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Dynamo-electric machine. No. 1,418,857; June 6.
Williamson, Samuel B., Westport, Conn. Diaphragm for sound-producing instruments. No. 1,418,998; June 6.
Williamson, Varnum, Glens Falls, N. Y. Painting mixture. No. 1,418,416; June 6.
Williamson, William R., Chicago, Ill. Chart. No. 1,418,765; June 6.
Willstätter, Richard, Munich, O. Wolfes, and H. Maeder, Darmstadt, Germany. Tropinone monocarboxylic acid esters and preparation of same. No. 1,419,091; June 6.
Wilson, Charles W., Lawton, Okla. Amusement device. No. 1,418,999; June 6.
Wilson, Robert A., assignor to Guiberson Corporation, Dallas, Tex. Wrench. No. 1,418,768; June 6.
Wilson, Robert A., assignor to The Guiberson Corporation, Dallas, Tex. Well-casing spear. No. 1,418,766; June 6.
Wilson, Robert A., assignor to Guiberson Corporation, Dallas, Tex. Casing wrench. No. 1,418,767; June 6.
Wilson, Walter A., Elkhart, Kans. Windmill. No. 1,419,000; June 6.
Winders, Bayard L. (See Durborow, H. J., and Winders.)
Winkley, Paul N., Casper, Wyo. Automatic releasing stirrup. No. 1,418,504; June 6.
Witherell, Earl M., Duluth, Minn. Knitting-machine needle. No. 1,418,345; June 6.
Wittig, Alfred E., Rochester, N. Y. Signal. No. 1,418,346; June 6.
Wolcott, Edson R., Los Angeles, Calif. Pencil sharpener. No. 1,418,858; June 6.
Wolf, James D., Croton-on-Hudson, N. Y. Fire-fighting apparatus. No. 1,418,505; June 6.
Wolf, Kuno, Berlin-Charlottenburg, assignor to Elektro-osmose Aktiengesellschaft (Graf Schwerin Gesellschaft), Berlin, Germany. Manufacturing material suitable for wall covering, putty, or the like. No. 1,418,896; June 6.
Wolfes, Otto, and H. Maeder, Darmstadt, Germany. Preparation of tropinone monocarboxylic-acid esters. No. 1,419,092; June 6.
Wolfes, Otto. (See Willstätter, R., Wolfes, and Maeder.)
Wood, Andrew C., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Counter train. No. 1,418,507; June 6.
Wood, Alfred J., Waldwick, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,418,506; June 6.
Wood, Henry A. W., assignor to The Wood Newspaper Machinery Corporation, New York, N. Y. Device for delivering stereotype printing plates and tails from a finishing machine. No. 1,418,417; June 6.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Metal-supplying device. No. 1,418,418; June 6.
Wood Newspaper Machinery Corporation, The. (See Wood, Henry A. W., assignor.)
Woodford, Charles P., Spooner, Wis. Tilting mechanism for automobile headlights. No. 1,418,769; June 6.
Woodhull, Timothy M., Swansboro, N. C. Basket. No. 1,418,508; June 6.
Woodruff, Vincent O., Bridgeton, N. J. Resilient tire. No. 1,419,001; June 6.
Woods, Charles H., and A. Ruebsamen, assignors to Decatur Supply and Fare Register Company, Decatur, Ill. Register. No. 1,418,770; June 6.
Wootten, Charles T., deceased, Philadelphia, Pa., by David Bowers, executor, Laurel Springs, N. J., assignor to Manufacturing Company of America, Philadelphia, Pa. Box. No. 1,418,897; June 6.
Wrapping Ad Machine Co., The. (See Haase, Jorgen I., assignor.)
Wright, Edward B., and W. W. Weaver, Fitchburg, Mass. Paper machine. No. 1,419,002; June 6.
Wright, Harry A., Springfield, assignor to The Wright Multiple Valve Grinder Co., Fitchburg, Mass. Valve grinder. No. 1,418,419; June 6.
Wright, Leslie D., London, England. Stand for cameras. No. 1,418,898; June 6.
Wright Multiple Valve Grinder Co., The. (See Wright, Harry A., assignor.)
Young, James H., assignor to H. H. Robertson Company, Pittsburgh, Pa. Protected metal article. No. 1,418,347; June 6.
Young, James H., assignor to H. H. Robertson Company, Pittsburgh, Pa. Protected metal article. No. 1,418,348; June 6.
Young, James H., assignor to H. H. Robertson Company, Pittsburgh, Pa. Protected metal article. No. 1,418,349; June 6.
Young, L. A., Industries, Inc. (See Reidenbach, Herman O., assignor.)
Zeiss, Firm of Carl. (See Steinle, Adolf, assignor.)
Zepka, Ludwig R., Cleveland, Ohio. Motor-vehicle protector. No. 1,419,093; June 6.
Ziegler, George J. (See Burtnett, Everett R., assignor.)
Zwicker, Julius G., Berkeley, Calif. Concrete-pipe machine. No. 1,418,859; June 6.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Acheson Harden Company. (See Harden, James, assignor.)
Andrus, Hiram J., Akron, Ohio. Tire. No. 61,026; June 6.
Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical receptacle. No. 61,027; June 6.
Berkowitz, Isaac, New York, N. Y. Lens. Nos. 61,028–9; June 6.
Binkovitz, M., & Son. (See Meyers, Edward G., assignor.)
Breitenstein, Arthur L., Akron, Ohio. Elastic vehicle tire. No. 61,030; June 6.
Brockmann, George R., assignor to Supreme Pyramid Ancient Egyptian Order of Sciots, San Francisco, Calif. Emblem, button, brooch, fob, or similar article. No. 61,031; June 6.
Cody, Everett, Washington, D. C. Pendant. No. 61,032; June 6.
Dahl, Benjamin, Minneapolis, Minn. Tire. No. 61,033; June 6.
Dahl, Thure E., New York, N. Y. Globe for lighting fixture. No. 61,034; June 6.
De Kosenko, Stepan, assignor to Sterling Bronze Company, New York, N. Y. Ornament for a radiator cap. No. 61,045; June. 6.
Dieges & Clust. (See Dieges, Charles J., assignor.)
Dieges, Charles J., assignor to Dieges & Clust, New York, N. Y. Ring. No. 61,035; June 6.
Harden, James, assignor to The Acheson Harden Company, New York, N. Y. Handkerchief, napkin, or similar article of manufacture. Nos. 61,036–9; June 6.
Havemeyer, Clara H., Springfield, Mass., assignor to Package Paper and Supply Corporation. Ornamental paper. No. 61,040; June 6.
Jones, Martin, San Diego, Calif. Writing pen. No. 61,041; June 6.
Joseph, Henry, assignor to Joseph Sanitary Rug Company, Milwaukee. Wis. Rubber mat. No. 61,042; June 6.
Joseph Sanitary Rug Company. (See Joseph, Henry, assignor.)
Kaufman, Ida, Atlantic City, N. J. Candy boat. No. 61,043; June 6.
Kerlow Steel Flooring Co. (See Lown, Walter H., assignor.)
Klenk, Charles, Englewood, N. J., assignor to The Palm Brothers Company, New York, N. Y. Plate or similar article. No. 61,044; June 6.

Lown, Walter H., assignor to Kerlow Steel Flooring Co., Jersey City, N. J. Grating. No. 61,046; June 6.
Mace, John E., New York, N. Y. Jar. No. 61,047; June 6.
Malone, Louis J., Riverside, N. J. Fraternal emblem, medallion, badge, button, pin, or article of similar nature. No. 61,048; June 6.
Meyers, Edward G., Passaic, N. J., assignor to M. Binkovitz & Son, New York, N. Y. Mattress ticking or similar article of manufacture. No. 61,049; June 6.
Milhening, Frank, Evanston, assignor to J. Milhening, Inc., Chicago, Ill. Finger ring. No. 61,050; June 6.
Milhening, J., Inc. (See Milhening, Frank, assignor.)
Oppenheim, Austin N., assignor to Oppenheim, Oberndorf & Co., Inc., Baltimore, Md. Display shape of an article of clothing. No. 61,051; June 6.
Oppenheim, Oberndorf & Co. (See Oppenheim, Austin N., assignor.)
Package Paper and Supply Corporation. (See Havemeyer, Clara H., assignor.)
Packard Motor Car Company. (See Walker, Frederick W., assignor.)
Palm Brothers Company, The. (See Klenk, Charles, assignor.)
Shawe, Edith M., Huntington, N. Y. Doll. No. 61,052; June 6.
Slotoroff, Abraham, assignor to L. Slotoroff, Brooklyn, N. Y. Cap. No. 61,053; June 6.
Slotoroff, Lena. (See Slotoroff, Abraham, assignor.)
Sterling Bronze Co. (See De Kosenko, Stepan, assignor.)
Supreme Pyramid Ancient Egyptian Order of Sciots. (See Brockmann, George R., assignor.)
Verber, Albert, New York, N. Y. Ring. Nos. 61,054–5; June 6.
Walker, Frederick W., Royal Oak, assignor to Packard Motor Car Company, Detroit, Mich. Automobile window handle. No. 61,056; June 6.
Walker, Frederick W., Royal Oak, assignor to Packard Motor Car Company, Detroit, Mich. Handle. No. 61,057; June 6.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Aladdin Products Company, Chicago, Ill. Shampoos. No. 155,593; June 6.
American Automatic Lock and Lift Company, San Francisco, Calif. Concealable beds. No. 155,594; June 6.
American Blower Company, Detroit, Mich. Electrical blowers. No. 155,595; June 6.
American Fabrics Company, The, Bridgeport, Conn. Feather stitch braid and embroidery edging. No. 155,596; June 6.
American Metal Polish Co., Somerville, Mass. Metal polish. No. 155,597; June 6.
American Steel & Wire Company of New Jersey, The, Cleveland, Ohio. Electrical wires, covered or uncovered, and rail bonds. No. 155,598; June 6.
Anderson, Robert D. H., New York, N. Y. Brackets for electric lamps. No. 155,599; June 6.
Arnessen Electric Co., Inc., Brooklyn, N. Y. Certain marine electrical equipment. No. 155,600; June 6.
Arnold, F. R., & Co., New York, N. Y. Face cream and powder. No. 155,601; June 6.
Asensin Company of America, New York, N. Y. Local anaesthetic. No. 155,602; June 6.
Ashaway Line & Twine Manufacturing Company, Ashaway, R. I. Fishing line. Nos. 155,603–4; June 6.
Auerbach, Louis, Cleveland, Ohio. Hair-tonic, massage cream, toilet water. No. 155,605; June 6.
Austin, W. Lee, Dallas, Tex. Antiseptic healing powder used for tired, aching, and swollen feet. No. 155,606; June 6.
Baker-Poston-Hemphill & Co., Fort Worth, Tex. Shoe laces. No. 155,607; June 6.
Balycat Mfg. Co., The, Mansfield, Ohio. Mattresses. No. 155,608; June 6.
Barrett Company, The, New York, N. Y. Coke. No. 155,609; June 6.
Barron, Anderson Co., Boston, Mass. Men's suits and overcoats. No. 155,610; June 6.
Bastanchury Ranch Company, Fullerton, Calif. Fresh citrus fruits. No. 155,611; June 6.
Bayer Co., Inc., The, New York, N. Y. Preparations or medicines for certain purposes. No. 155,612; June 6.
Beach, James, & Sons, Dubuque, Iowa. Soap and soap preparations. No. 155,613; June 6.
Bell Washer and Wringer Company, The, Cleveland, Ohio, assignor to The Foote-Burt Company. Laundry washing machines. No. 155,614; June 6.
Bell, William, Forestville, Calif., and Buffalo, N. Y. Certain medicinal preparations. No. 155,615; June 6.
Bellaire, Louis P., Le Mars, Iowa. Salve for wounds, sores, irritation, etc. No. 155,616; June 6.
Bendy, Mrs. G. W., Houston, Tex. Pomade. No. 155,617; June 6.
Benedict, C., Mfg. Co., San Francisco, Calif. Brassières, bandeaux, ready-made dress linings, waterproof aprons, baby pants, corsets, hose supporters, etc. No. 155,618; June 6.
Benoliel, Solomon D., Philadelphia, Pa. Cleaners for metal, japanning, galvanizing, and rough cleaning. No. 155,619; June 6.
Berry, Dr. C. H., Chemical Co., Chicago, Ill. Face cream. No. 155,620; June 6.
Betterton-Rupert Coffee Co., Ashland, Ky. Coffee. No. 155,879; June 6.
Bias Narrow Fabric Company, The, New York, N. Y. Novelty bias bindings. No. 155,621; June 6.
Bitzer & Rommel, Greenfield, Mass. Medicinal preparation for asthma. No. 155,622; June 6.
Blystone Manufacturing Company, The, Cambridge, Pa. Mixers for plastic and granular materials. No. 155,880; June 6.
Borgenich, Louis, New York, N. Y. Children's and misses' dresses. No. 155,623; June 6.
Bourjois, A., & Co. Inc., New York, N. Y. Toilet powders and compacts. No. 155,624; June 6.
Bowman Drug Co., Oakland, Calif. Mouth wash. No. 155,625; June 6.
Brown, Peabody A., Denver, Colo. Disinfecting and fumigating chemicals. No. 155,626; June 6.
Brown, Raymond C., New York, N. Y. Shampooing preparations. No. 155,627; June 6.
Bryant Electric Company, The, Bridgeport, Conn. Cover plates for electrical wiring devices. No. 155,628; June 6.
Buchsbaum, Samuel, Chicago, Ill. Belt buckles. No. 155,629; June 6.
Bud Hat Company Inc., New York, N. Y. Ladies' hats. Nos. 155,630–1; June 6.
Buffalo Specialty Co., Buffalo, N. Y. Antiseptics. No. 155,632; June 6.
Calyork Manufacturing Co., The, Los Angeles, Calif. Hats for men, women, and children. No. 155,633; June 6.
Candy Products Corporation, Chicago, Ill. Hard candy. No. 155,881; June 6.
Cangelosi, Joseph, New Orleans, La. Dandruff remedy. No. 155,634; June 6.
Casein product or material P. C. Christensen. No. 155,642; June 6.
Cassebeer, H. A., Inc., New York, N. Y. Cleansing fluid for silk, wool, cotton, and other textile fabrics. No. 155,635; June 6.
Caulk, L. D., Company, The, Milford, Del. Certain cleaning and polishing preparations used by dentists. No. 155,636; June 6.
Central City Chemical Co., Chicago, Ill. Insecticides. No. 155,637; June 6.
Chain Battery Supply Co., Chicago, Ill. Storage battery, storage-battery parts, and battery supplies. No. 155,638; June 6.
Charles William Stores Inc., The, Brooklyn, N. Y. Kitchen cabinets. No. 155,870; June 6.
Chemicals and By-Products Limited, Watford, England. Photographic developer. No. 155,639; June 6.
Cheramy, Inc., New York, N. Y. Talcum powder, rouge, cold cream, etc. No. 155,640; June 6.
Cheramy, Incorporated, New York, N. Y. Toilet soaps. No. 155,641; June 6.
Chore Utensils Corporation, The. (See Kingman, Russell B., assignor.)
Christensen, Peter C., Orange, N. J. Casein product or material. No. 155,642; June 6.
Clark, W. L. M., Incorporated, St. Louis, Mo. Paper patterns. No. 155,643; June 6.
Cleveland Pneumatic Tool Company, The, Cleveland, Ohio. Hose couplings. No. 155,882; June 6.
Cohen, Goldman & Co. Inc., New York, N. Y. Certain articles of clothing. No. 155,644; June 6.
Colgate & Company, Jersey City, N. J. Soaps. No. 155,645; June 6.
Colgate & Company, Jersey City, N. J. Liquid and powdered perfumes. Nos. 155,646–7; June 6.
Colgate & Company, Jersey City, N. J. Soaps. No. 155,648; June 6.
Comfort Powder Co. Inc., The, Boston, Mass. Toilet powder. Nos. 155,649–50; June 6.
Compo Battery Company, The, Defiance, Ohio. Electric storage batteries and storage-battery parts. No. 155,651; June 6.
Compound Injector & Specialty Co., Chicago, Ill. Certain drainage fittings. No. 155,884; June 6.
Condensed Bluing Company, Chicago, Ill. Bluing. No. 155,652; June 6.
Consolidated Safety Pin Company, The, Bloomfield, N. J. Safety pins. Nos. 155,653–4; June 6.
Coto-Coil Company, Providence, R. I., and Boston, Mass. Certain electrical devices. No. 155,655; June 6.
Cotton, Leonard M., Boston, Mass. Motor-vehicle trailers, bodies for automobiles and motor trucks. No. 155,883; June 6.
Cotton, Leonard M., Boston, Mass. Motor-vehicle trailers, bodies for automobiles and motor trucks. No. 155,885; June 6.
Council, James R., Norfolk, Va. Bluing. No. 155,656; June 31.
Covina Orange Growers Association, Covina, Calif. Oranges. No. 155,657; June 6.
Crane Company, Chicago, Ill. Certain valves, cocks, pipe fittings, boiler, engine, and bathroom trimmings, and plumbing supplies. No. 155,886; June 6.
Crescent Braid Co. Inc., Providence, R. I. Shoe laces. No. 155,658; June 6.
Crossett-Barton Company, Chatteroy, Wash. Aromatic fillings for pillows, cushions, mattresses, etc. No. 155,659; June 6.
Crown Supply Company, Inc., New York, N. Y. Toilet waters and creams, cold cream, cucumber and almond cream, and face powder. No. 155,660; June 6.
Crystal Chemical Company, Incorporated, The, New York, N. Y. Certain toilet preparations. No. 155,661; June 6.
Dairy Laboratories, The, Philadelphia, Pa. Chlorine solution, fly spray, sour-milk-testing solution, antiseptic, etc. No. 155,662; June 6.
Davis, James S., Chicago, Ill. Blood tonic. No. 155,663; June 6.
Davis, William D., Lansford, Pa. Ointment. No. 155,887; June 6.
Defender Photo Supply Company, Inc., Rochester, N. Y. Photographic chemicals and chemical preparations. No. 155,664; June 6.
Detroit White Lead Works, Detroit, Mich. Certain soaps, metal polish, and leather dressing. No. 155,665; June 6.
Devon Laboratories Co., The, Cincinnati, Ohio. Medicinal throat tablets. No. 155,666; June 6.
Dickerson, Lawrence T., Atlanta, Ga. Face massage cream. No. 155,667; June 6.

Dishmond, Mary A. B., Raleigh, N. C. Hair tonic. No. 155,668; June 6.
Donnelly Garment Company, Kansas City, Mo. Wash and house dresses, aprons. No. 155,669; June 6.
Donohue, John, & Sons, Inc., Paterson, N. J. Mattresses. No. 155,670; June 6.
Doughten Seed Company, Jersey City, N. J. Grass and field seeds. Nos. 155,671–2; June 6.
Dudley Gum Company, Nashville, Tenn. Chewing gum. No. 155,888; June 6.
Dunlap, Fred C., Kansas City, Mo. Cleaning compound for the hands. No. 155,673; June 6.
Eau Claire Sand & Gravel Co., Eau Claire, Wis. Sand and gravel of various kinds. No. 155,675; June 6.
Edelman, Hyman, Chicago, Ill. Work pants, jackets, and overalls. No. 155,674; June 6.
Egry Register Company, The, Dayton, Ohio. Cabinets for registers. No. 155,676; June 6.
Eisenberg, Jacob, Binghamton, N. Y. Preparation for certain purposes. No. 155,677; June 6.
Electric Vacuum Cleaner Company, Cleveland, Ohio. Electric vacuum cleaners and parts thereof. No. 155,682; June 6.
Electro Radite Company, The, Westport, Conn. Hair curlers. No. 155,683; June 6.
Electrose Manufacturing Company, Brooklyn, N. Y. Fabricated material for electrical insulation and certain insulation devices. No. 155,678; June 6.
Empire Notion Co., New York, N. Y. Hairpins. No. 155,679; June 6.
Energy Electrolyte Co., Minneapolis, Minn. Liquid battery solution. No. 155,680; June 6.
Equity Growers & Shippers Association, Hamilton, Mont. Fresh apples. No. 155,681; June 6.
Euclid Candy Company, The, Cleveland, Ohio. Candy. No. 155,684; June 6.
Farynyk, Nickolai, Allentown, Pa. Healing salves for wounds, cuts, and bruises. No. 155,685; June 6.
Federal Bridge and Structural Co., Waukesha, Wis. Metal window sashes. No. 155,686; June 6.
Fell, George, & Son Limited, Bolton, England. Leather and skins. No. 155,687; June 6.
Fergusson, Alan R., Buffalo, N. Y. Electric signal holders and traffic-signal devices. No. 155,688; June 6.
Flannery Bolt Company, Wilmington, Del., and Pittsburgh, Pa. Boiler stay bolts, track, frog, and switch bolts, and nuts, etc. No. 155,889; June 6.
Foote-Burt Company, The. (See Bell Washer and Wringer Company, The, assignor.)
Formica Insulation Company, The, Cincinnati, Ohio. Electric insulating compound. No. 155,689; June 6.
Frank Pure Food Company, The, Milwaukee, Wis. Canned sauerkraut. Nos. 155,890–1; June 6.
Gamewell Fire Alarm Telegraph Company, The, New York, N. Y. Certain electrical apparatus. No. 155,690; June 6.
Gamlin, William, London, Ohio. General conditioner for horses, cattle, etc. No. 155,691; June 6.
Gangelhoff Bros., Minneapolis, Minn. Mattresses. No. 155,692; June 6.
Gash, Stull & Company, Chester, Pa. Tractor-plow hitches. No. 155,892; June 6.
George, Andrew J., Kansas City, Kans. Medicinal tonic for blood, skin, and bladder diseases. No. 155,693; June 6.
Geraldine Company, The, Boston, Mass. Toilet preparations—namely, a hair tonic. No. 155,694; June 6.
Getlen, Nestor, J., Denver, Colo. Medical preparation for the feet. No. 155,695; June 6.
Gladding, B. F., & Co. Inc., South Otselic, N. Y. Hardbraid casting lines. No. 155,893; June 6.
Goldman, Benjamin T., St. Paul, Minn. Hair dyes, color restorers, and tonics. No. 155,696; June 6.
Gomez & Sloan, Inc., New York, N. Y. Certain toilet preparations and chemicals used in the manufacture of same. No. 155,697; June 6.
Griffin Manufacturing Company, Inc., New York, N. Y. Shoe polish. No. 155,698; June 6.
Guy, George H., Seattle, Wash. Certain chemical, medicinal, and pharmaceutical preparations. No. 155,699; June 6.
Halstead Specialties Company, San Francisco, Calif. Rust solvent. No. 155,700; June 6.
Hammell-Neuman Co., Philadelphia, Pa. Men's, women's, and children's hats. No. 155,701; June 6.
Hanes, P. H., Knitting Company, Winston-Salem, N. C. Undergarments of knitted or woven material. No. 155,702; June 6.
Hansen, Harry A., Ashland, Wis. Preparation for the treatment of sore, weak, etc., eyes. No. 155,703; June 6.
Heller, B., & Co., Chicago, Ill. Metal polish. No. 155,704; June 6.
Heller, Morris, New York, N. Y. Salad oil—viz, cottonseed oil flavored with olive oil. Nos. 155,705–6; June 6.
Henderson, Wm., & Co., Philadelphia, Pa. Textile rugs. No. 155,707; June 6.
Heneph Co., Inc., The, Kingston, N. Y. Certain preparations or medicines. No. 155,708; June 6.
Herbst, Abram W., New York, N. Y. Perfume. Nos. 155,709–11; June 6.
Hill and La Cross Company, The, Cranston, R. I. Narrow braids, elastic braids, and shoe laces. No. 155,712; June 6.
Hitchcock, Frank, Cleveland, Ohio. Electric signal lamps for automobiles. No. 155,713; June 6.
Hoffman & Peterson, Priest River, Idaho. Foot powder. No. 155,714; June 6.
Hollingshead, R. M., Co., Camden, N. J. Metal polish, oil soap, etc. No. 155,715; June 6.
Hollingshead, R. M., Co., The, Camden, N. J. Soldering compound in the nature of flux. No. 155,716; June 6.
Hollins, William, & Company, London and Mansfield, England. Certain articles of clothing. No. 155,717; June 6.
Horn, A. C., Co., Long Island City, N. Y. Cleaning and polishing powder. No. 155,718; June 6.
Hudson, King C., Chicago, Ill. Tooth paste. No. 155,719; June 16.
Hudson Narrow Fabric Co., Hudson, Mass. Textile webbing of narrow weave. No. 155,720; June 6.
Hunter, Robert L., Norfolk, Va. Flash lights, searchlights, and spots lights. No. 155,721; June 6.
Idaho Vinegar & Cider Co., Payette, Idaho. Vinegar. No. 155,894; June 6.
Innis, Speiden & Co. Inc., New York, N. Y. Soap and benzene soap. No. 155,722; June 6.
Interchangeable Wall Case Co., The, Detroit, Mich. Store wall-cases, showcases, and interchangeable shelving. No. 155,723; June 6.
International Bedding Co., Baltimore, Md. Felt mattresses. No. 155,724; June 6.
International Bedding Co., Baltimore, Md. Felt mattresses. No. 155,725; June 6.
International Talking Machine Company. Berlin-Weissensee, Germany. Certain talking machines and parts and supplies therefor. No. 155,726; June 6.
Jackson, J. H., Company, Inc., New York, N. Y. Leather. No. 155,727; June 6.
Jameelah Jane Corporation, Chicago, Ill. Face powder, cold cream, vanishing cream, rouge. No. 155,729; June 6.
Jameson, Charles F., Boston, Mass. Chemically-treated cloth for polishing metals, hard rubber, and glass. No. 155,728; June 6.
Johnson Automobile Lock Company, Chicago, Ill. Automobile locks. No. 155,895; June 6.
Kaufmann, Charles, & Sons, Santa Ana, Calif. Electric spot lights. No. 155,731; June 6.
Kauffman, Edwin N., Mahaffey, Pa. Knee pads for miners. No. 155,732; June 6.
Kessler Edwin, New York, N. Y. Girls', intermediates', juniors', and misses' dresses. No. 155,733; June 6.
Kingman, Russell B., assignor to The Chore Utensils Corporation, Orange, N. J. Scouring cloths. No. 155,734; June 6.
Klee-Nup Mfg. Co., Hancock, Mich. Cleaning compound. No. 155,735; June 6.
Kling-Tite Products Co., Chicago, Ill. Roof cement. No. 155,736; June 6.
Kopf, Martin C., Milwaukee, Wis. Medicinal powder for rheumatism, gout, lumbago, etc. No. 155,737; June 6.
Koppel Industrial Car & Equipment Company, Koppel and Pittsburgh, Pa. Electric locomotive and tractors. No. 155,738; June 6.
Kosofsky, Aaron, New York, N. Y. Muskrat skins. No. 155,897; June 6.
Kraft, J. L., & Bros. Co., Chicago, Ill. Cheese. No. 155,898; June 6.
Kramer, Sauber & Kesting, Incorporated, Baltimore, Md. Middy blouses. No. 155,739; June 6.
Kuntzmann, Henry H., St. Louis, Mo. Shampoo for the hair and scalp. No. 155,740; June 6.
Kuppenheimer, B., and Co., Chicago, Ill. Men's outer clothing—viz, suits and overcoats. No. 155,741; June 6.
Kwik Mfg. Co., The, Topeka, Kans. Medical preparation for sore throat, cuts, sores, etc. No. 155,742; June 6.
Kwilecki's, I., Sons, Bainbridge, Ga. Certain cutlery, machinery, and tools. No. 155,896; June 6.
Lake Superior Loader Co., Duluth, Minn. Mechanical shovels. No. 155,743; June 6.
Lake Wales Citrus Growers Association, Lake Wales, Fla. Fresh citrus fruits. Nos. 155,744–5; June 15.
Leasure, Isaac N., Chicago, Ill. Compound for treating dropsy. No. 155,746; June 6.
Longfeld's Pharmacy, San Francisco, Calif. Cosmetic toilet preparation. No. 155,747; June 6.
Leonard, A. F., & Co., Jacksonville, Fla. Balm. No. 155,748; June 6.
Levine, Benjamin A., Brooklyn, N. Y. Hosiery. No. 155,749; June 6.
Levine, David, & Sons, New York, N. Y. Men's, women's, and children's hosiery made of silk, cotton, wool, etc. No. 155,750; June 6.
Little, Wilson R., Macon, Miss. Chill remedies. No. 155,751; June 6.
Lottman, C. F., & Sons, Houston, Tex. Mattresses. No. 155,752; June 6.
Louisville Knitting Company, Inc., Louisville, Ky. Hosiery. No. 155,753; June 6.
Lyko Medicine Company, Dover, Del., and Kansas City, Mo. Antiseptic preparations. No. 155,754; June 6.
Lynch, Minnie, Orange, N. J. Toilet soap. No. 155,755; June 6.

M-P-Co., Concord, N. H. Composition for cleaning metal ware, clothing, and gloves. No. 155,769; June 6.
McAbee, William H., Baltimore, Md. Pile remedy. No. 155,756; June 6.
Magno Storage Battery Co., Brooklyn, N. Y. Electric batteries. No. 155,757; June 6.
Mappin & Webb Limited, London and Sheffield, England. Plate powder. No. 155,758; June 6.
Marathon Tire & Rubber Company, The, Cuyahoga Falls, Ohio. Belt buckles not precious metals. No. 155,759; June 6.
Marathon Tire & Rubber Company, The, Cuyahoga Falls, Ohio. Leather, fabric, or rubber belts for supporting outer garments. No. 155,760; June 6.
Marshall Oil Company of Iowa, Marshalltown, Iowa. Belt dressing. No. 155,761; June 6.
Meyers, Milton, Newark, N. J. Disinfectants and deodorants. No. 155,762; June 6.
Meyers & Kaner, New York, N. Y. Insecticedes. No. 155,763; June 6.
Midwest Steel & Supply Company, Inc., New York, N. Y. Certain construction material. No. 155,764; June 6.
Migel, J. A., Inc., New York, N. Y. Women's silk dresses, skirts, waists, &c. No. 155,770; June 6.
Mistl Laboratory Co., St. Louis, Mo. Shampoo. No. 155,765; June 6.
Mitchell, William M., Louisville, Ky. Inhaling compound for the protection of firemen and others. No. 155,766; June 6.
Monarch Leather Company, Chicago, Ill. Leather. Nos. 155,899–90; June 6.
Monroe Tire Corporation, Chicago, Ill. Pneumatic rubber tires. No. 155,901; June 6.
Moore, Charles H., Northport, Wash. Preparation for rheumatism, lumbago, neuritis, etc. No. 155,767; June 6.
Morgan, William A., Atlanta, Ga. Eyewater. No. 155,768; June 6.
Myles Salt Co. Ltd., New Orleans, La. Salt. No. 155,902; June 6.
National Carbon Company, Inc., New York, N. Y. Arc-light carbons. Nos. 155,903–4; June 6.
National Carbon Company, Inc., New York, N. Y. Dry batteries. No. 155,771; June 6.
National Shoe Polish Mfg. Co., Philadelphia, Pa. Shoe polish. No. 155,772; June 6.
New England Confectionery Company, Boston, Mass. Candy. Nos. 155,773–81; June 6.
New Southern Drug Company, Incorporated, Shreveport, La. Chemical preparation used as a disinfectant, germicide, deodorant, etc. No. 155,782; June 6.
Nicholson's Raincoat Co. Limited, St. Albans, England. Raincoats and sports jackets. Nos. 155,783–4; June 6.
Niles Manufacturing Company, Niles, Mich. Spark plugs. No. 155,785; June 6.
Norquist, Clyde L., Jamestown, N. Y. Furniture. No. 155,786; June 6.
Norton Door Closer Co., Chicago, Ill. Elevator-door closers. No. 155,905; June 6.
Norwich Pharmacal Company, The, Norwich, N. Y. Bathing liniment for external use only. No. 155,787; June 6.
Nott, W. S., Company, Minneapolis, Minn. Storage batteries. No. 155,788; June 6.
Nunnally Company, The, Atlanta, Ga. Candies. No. 155,789; June 6.
Ogus, Rabinovitch, and Ogus Co., Chicago, Ill. Ladies', misses', and children's hats. No. 155,790; June 6.
Overton, Anthony, Chicago, Ill. Semisolid dressing for leather. No. 155,791; June 6.
Ovington Bros. Company, New York, N. Y. Fans for personal use. No. 155,792; June 6.
Paine Lumber Company, Limited, Oshkosh, Wis. Wooden doors. No. 155,793; June 6.
Palmer, Richard, New York, N. Y. Preparation for the treatment of piles. No. 155,906; June 6.
Parks, John G., Goldsboro, N. C. Antibilious piles. No. 155,794; June 6.
Pembrooke, Sarah, Los Angeles, Calif. Liquid medicine for the treatment of rheumatism, piles, nervousness, etc. No. 155,795; June 6.
Petkus, Alfred G., Manchester, N. H. Medical preparation for treating the feet against sweat secretions. No. 155,796; June 6.
Petrie, Arthur, Oklahoma, Okla. Preparation for treatment of leucorrhea and cleansing of the entire vagina. No. 155,797; June 6.
Plotz, Anna, Chicago, Ill. Medicine for goiter. No. 155,798; June 6.
Pollotsek, Max, Columbus, Ohio. Preparation for hay fevers, asthma, colds, and coughs. No. 155,800; June 6.
Pool, Norman T., Atlanta, Ga. Certain cleaning preparations. No. 155,799; June 6.
Procter & Gamble Company, The, Cincinnati, Ohio. Soap. No. 155,801; June 6.
R. V. G. Company, Inc., Brooklyn, N. Y. Flash lights and batteries. No. 155,814; June 6.
Radio Corporation of America, New York, N. Y. Vacuum tubes and valves. Nos. 155,802–3; June 6.
Raven, John C., Astoria, N. Y. Mixture for the treatment of pneumonia, influenza, bronchitis, asthma, etc. No. 155,806; June 6.
Reliance Manufacturing Company, Chicago, Ill. Boys' blouses, shirts, and playsuits. No. 155,807; June 6.
Revere Motor Car Corporation, Logansport, Ind. Automobiles. No. 155,907; June 6.
Roneo Limited, London, England. Filing cabinets, being office furniture. No. 155,808; June 6.
Rosenberg Bros. & Co., Rochester, N. Y. Men's ulsters and overcoats. No. 155,809; June 6.
Rosenthal, Bernard, Williamsport, Pa. Hose. No. 155,810; June 6.
Ruocco, Salvator, New York, N. Y. Medicine used in the treatment of pneumonia. No. 155,811. June 6.
Ruthrauff, W. M., Company, Philadelphia, Pa. Dentifrice. No. 155,812; June 6.
Rutland Fire Clay Co., Rutland, Vt. Water-glass egg preserver. No. 155,813; June 6.
S. O. S. Ignition Company, Brooklyn, N. Y. Spark intensifiers for internal-combustion engines. No. 155,838; June 6.
Sal-Cura Co., The, New York, N. Y. Salve for treatment of inflammatory ailments. No. 155,815; June 6.
Salenius, Ellen M., Sundyberg, Stockholm, Sweden. Liquid separators and churns. No. 155,816; June 6.
Samstag & Hilder Bros., New York, N. Y. Safety pins. No. 155,817; June 6.
Sandman, Otto H., Brooklyn, N. Y. Carbon papers and typewriter ribbons. No. 155,908; June 6.
San Francisco Sulphur Co., San Francisco, Calif. Sulphur having insecticidal properties. No. 155,818; June 6.
Schloss, Joseph W., Co., New York, N. Y. Hair wavers. No. 155,819; June 6.
Schlotz-Mutual Drug Company, The, Denver, Colo. Laxative preparations. No. 155,820; June 6.
Schoppenhorst, Francis W., Indianapolis, Ind. Antiseptic medicine. No. 155,821; June 6.
Schwarz, John A., Inc., New York, and Brooklyn, N. Y. Mattresses. No. 155,822; June 6.
Schweizer-Caillaux, Jean F., Vincennes, France. Certain articles of clothing. No. 155,823; June 6.
Scotch-Tone Company, Oklahoma, Okla. Soap. No. 155,824; June 6.
Scranton Drug Manufacturing Co., Scranton, Pa. General tonic for the liver, nerves, and stomach. No. 155,825; June 6.
Security Manufacturing Company, Brooklyn, N. Y. Electrical ignition coils and electrical condensers. No. 155,826; June 6.
Sedalia Medicine Company, Sedalia, Mo. Liniment for goiter. No. 155,827; June 6.
Sexton, John, and Company, Chicago, Ill. Certain cleaning preparations. No. 155,828; June 6.
Sexton, John, and Company, Chicago, Ill. Prepared roofing and roof cement. No. 155,829; June 6.
Shapero, Lewis, & Co., New York, N. Y. Dresses. No. 155,830; June 6.
Sherwin-Williams Company, The, Cleveland, Ohio. Soap (dry powdered, paste, semipaste, flake, liquid, and other consistencies). No. 155,831; June 6.
Shi-Nup Products Company, Racine, Wis. Cleansing preparations. No. 155,832; June 6.
Sidenberg, G., & Co., New York, N. Y. Collars, cuffs, guimpes, vestees, ruffs, jabots, and chemisettes. No. 155,833; June 6.
Siegrist, Henry A., St. Louis, Mo. Preparation for treatment of rheumatism, stomach trouble, etc. No. 155,834; June 6.
Smith-Kirk Candy Co., The, Toledo, Ohio. Candy suckers. No. 155,835; June 6.
Society of Chemical Industry in Basle, Basel, Switzerland. Medicine to produce twilight sleep. No. 155,836; June 6.
Solow, N., New York, N. Y. Pins. No. 155,837; June 6.
Spence, William R., Ogden, Utah. Medicine used in the treatment of whooping cough. No. 155,839; June 6.
Spring Mfg. Co., The, Meriden, Conn. Liquid cleaner for automobile windshields, windows, etc. No. 155,840; June 6.
Springfield Seed Co., Springfield, Mo. Farm seed. No. 155,841; June 6.
Stamisocott Company, Incorporated, The, Hopewell, Va. Paper pulp. No. 155,842; June 6.
Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J. Certain construction materials. Nos. 155,909–10; June 6.
Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J. Floor oils and furniture and automobile polish. No. 155,911; June 6.
Stern, Leona L., New York, N. Y. Face creams. No. 155,843; June 6.
Stover, Russell, Company, Des Moines, Iowa. Confection consisting of ice cream or ices covered by a coating of chocolate or other hardened edible material. No. 155,844; June 6.
Strecker, Dr. J. E., Chattanooga, Tenn. Preparations for certain purposes. No. 155,845; June 6.
Takamine Commercial Corporation, New York, N. Y. Certain electrical apparatus. No. 155,846; June 6.
Taylor, Lydia, Boley, Okla. Pomade for the treatment of the scalp. No. 155,847; June 6.
Thatcher-Clore Drug Co., Columbus, Ohio. Medicated preparation for dyspepsia, nausea, etc. No. 155,848; June 6.
Tonic for the liver, nerves, and stomach, General. Scranton Drug Manufacturing Co. No. 155,825; June 6.
Tornquist, Ernesto, & Co., Limitada, Buenos Aires, Argentina. Extract of wood, particularly of quebracho wood, for tanning purposes. No. 155,849; June 6.

Trece Laboratories, Inc., New York, N. Y. Toilet preparation for coloring and treating eyebrows, eyelashes, and hair. No. 155,850; June 6.
Tucker Electrical Construction Company, The, New York, N. Y. Certain electrical devices. No. 155,851; June 6.
Uhry, Felix, Chicago, Ill. Powder puffs. No. 155,852; June 6.
United Metal Box Co., New York, N. Y. Switch boxes, motor inclosures, and safety switches. No. 155,853; June 6.
Virden Packing Company, Oakland, Calif. Canned fruits and vegetables. No. 155,854; June 6.
Voco Sales Co., The, New York, N. Y. Embroidery stampings. No. 155,855; June 6.
Wabash Baking Powder Company, Wabash, Ind. Baking powder and soda. No. 155,856; June 6.
Waldes & Co. Inc., New York and Long Island City, N. Y. Certain notions. No. 155,858; June 6.
Waldes & Co. Inc., New York and Long Island City, N. Y. Snap and placket fasteners. No. 155,857; June 6.
Walker Webbing Co., Providence, R. I. Certain notions. Nos. 155,859-60; June 6.
Wanamaker, John, Philadelphia, Philadelphia, Pa. Soaps. No. 155,862; June 6.
Wanamaker, John, Philadelphia, Philadelphia, Pa. Toilet preparations. No. 155,861; June 6.
Wax, Charles, Philadelphia, Pa. Dress shirts, negligee, work, and night shirts, pajamas, and underwear. No. 155,863; June 6.
Werber, Samuel M., St. Louis, Mo. Wearing apparel. No. 155,864; June 6.
Western Lumber & Pole Company, Spokane, Wash. Cedar telephone, telegraph, and transmission-line poles. No. 155,865; June 6.
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Battery chargers. No. 155,866; June 6.
White, Robert C., Inc., Philadelphia, Pa. Liquid preparation taken internally as an alterative, antiasthmatic, etc. No. 155,867; June 6.
White Rock Mineral Springs Company, Waukesha, Wis. Mineral water and beverages made of water. No. 155,912; June 6.
Whitman, Stephen F., & Son, Inc., Philadelphia, Pa. Candy. No. 155,868; June 6.
Wilhelm, Herman, New York, N. Y. Felt slippers. No. 155,869; June 6.
Winthrop Chemical Company, Inc., New York, N. Y. Sedative and hypnotic. No. 155,871; June 6.
Wisconsin Steel Company, Chicago, Ill. Coal. No. 155,872; June 6.
Wollo Ignition Products Co., St. Louis, Mo. Gasoline-engine spark plugs. No. 155,873; June 6.
Wolff Manufacturing Co., Chicago, Ill. Water-closet bowls. No. 155,913; June 6.
Worthington Pump and Machinery Corporation, New York, N. Y. Battery and electric lighting plants and switchboards. No. 155,874; June 6.
Wunder, O. L., Company, Danville, Ill. Preparation to clean and polish lenses (eyeglasses). No. 155,875; June 6.
Youdelman, Alexander, New York, N. Y. Lace tippers. No. 155,914; June 6.
Youngstown Sheet and Tube Company, The, Youngstown, Ohio. Iron and steel tubes and certain oil-well tubular goods and fencing. No. 155,915; June 6.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Allied Drug and Chemical Corporation, New York, N. Y. "Oraseptine." (For a Fragrant Antiseptic Mouth Wash, Dentifrice, Gargle, and Douche.) No. 24,431; June 6.
Bakken, S. H., Benson, Minn. "Best Yet." (For Bread.) No. 24,434; June 6.
Banks, Llewellyn A., doing business as The Citrus Growers Cash Association, Los Angeles, Calif. "Glen Rosa." (For Oranges.) No. 24,432; June 6.
Barker, Moore & Mein Medicine Co., Inc., The, Philadelphia, Pa. "Barker's Gape Remedy." (For a Remedy for Gape in Poultry.) No. 24,435; June 6.
Blue & White Soap Co., Boston, Mass. "Blue & White Soap." (For Soap.) No. 24,433; June 6.
Brown, Earle D., doing business as The Everam Co., South Bend, Ind. "The Dream Feast." (For a Baked Confection.) No. 24,436; June 6.
Buckeye Nurseries Incorporated, Tampa, Fla. "Temple Oranges." (For Packages Containing Fresh Oranges.) No. 24,437; June 6.
Campanella & Favora Macaroni Co., New York, N. Y. "Diaz Brand." (For Macaroni.) No. 24,438; June 6.
Cardali, Vincenzo, New York, N. Y. "Theodora." (For Cigars.) No. 24,439; June 6.
Citrus Growers Cash Association. (See Banks, Llewellyn A.)
Creger, Henry N., doing business as The Red Gum Products Company, San Francisco, Calif. "Regum Tooth Paste." (For Tooth Paste.) No. 24,440; June 6.
Dessart Bros., Brooklyn, N. Y. "The Universal Toy." (For Masks.) No. 24,441; June 6.
Dragon Paper Mfg. Co. Inc., Long Island City, N. Y. "None Such Bread." (For Bread.) No. 24,442; June 6.
Everam Co., The. (See Brown, Earle D.)
Friedman-Kerr Co., The, Chicago, Ill. "Nut Roll Moonshine Minnie." (For Candy.) No. 24,443; June 6.
Friedman-Kerr Co., The, Chicago, Ill. "Dandy Boy." (For Candy.) No. 24,444; June 6.
Friedman-Kerr Co., The, Chicago, Ill. "Devil's Food Devilish Good." (For Candy.) No. 24,445; June 6.
Friedman-Kerr Co., The, Chicago, Ill. "Kerr's Bun." (For Candy.) No. 24,446; June 6.
Friedman-Kerr Co., The, Chicago, Ill. "Big Hit Nut Roll." (For Candy.) No. 24,447; June 6.
Friedman-Kerr Co., The, Chicago, Ill. "Kerr's Snow Ball." (For Candy.) No. 24,448; June 6.
Friedman-Kerr Co., The, Chicago, Ill. "Kerr's High Ball." (For Candy.) No. 24,449; June 6.
Gotham Chemical Company, Inc., New York, N. Y. "Celery Phos-Fo." (For a Medicinal Preparation named Celery Phos-Fo.) No. 24,450; June 6.
Gregory, Charles J., Philadelphia, Pa. "Permacrease." (For Packages Containing Permacrease, a Celluloid Glue.) No. 24,451; June 6.
Gridley Dairy Company, The. (See Menasha Printing and Carton Company, assignors.)
Guy, George H., Seattle, Wash. "Purex." (For Containers Containing a Medicine—Namely, Mackenzie Regulators.) No. 24,452; June 6.
Jacobs, Oscar E., assignor to Kerr Manufacturing Company, Detroit, Mich. "Bang Bird America's Popular Parlor Game." (For Boxes Containing the Game Apparatus.) No. 24,453; June 6.
Jameson, Fred, Palmer, Mass. "Jameson's Rheumatic & Neuritis Herb Remedy." (For a Medicine for Rheumatism and Neuritis.) No. 24,454; June 6.
Kart, Rosen & Stein. (See Menasha Printing and Carton Company, assignor.)
Kerr Manufacturing Company. (See Jacobs, Oscar E., assignor.)
Madden's Pharmacy, Jacksonville, Fla. "Madden's Pick-Me-Up Tonic." (For Bottles Containing a Tonic.) No. 24,455; June 6.
Menasha Printing and Carton Company, Menasha, Wis., assignor to The Gridley Dairy Company, Milwaukee, Wis. "Gridley's." (For Cartons Containing Butter.) No. 24,456; June 6.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Kart, Rosen & Stein, Pittsburgh, Pa. "Brook-Side." (For Cartons Containing Butter.) No. 24,457; June 6.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Seattle Ice Cream Company, Seattle, Wash. "Seattle Ice Cream." (For Cartons Containing Ice Cream.) No. 24,458; June 6.
Menasha Printing and Carton Company, Menasha, Wis., assignor to The Purity Cream Cheese Company, Cleveland, Ohio. "Edelweiss." (For Cartons Containing Butter.) No. 24,459; June 6.
Nebraska Buick Auto Co., Lincoln, Nebr. "Research." (For Motor Oil.) No. 24,460; June 6.
Osbaldeston, Frank T., doing business as The Turner Sales Co., Chicago, Ill. "Belinda's Joy." (For a Washing Compound.) No. 24,461; June 6.
Peters Hog-Biscuit Co., Kansas City, Mo. "Hog-Nip Flavor." (For the Containers for a Hog Remedy in the Form of a Biscuit.) No. 24,462; June 6.
Pleng's Pharmacy Inc., Charleston, S. C. "It Kills 'Not' Drives." (For Insect Exterminators.) No. 24,463; June 6.
Prada, Joseph E., Quincy, Mass. "Prada Sunbeam Polish." (For a Polish for Pianos, Furniture, Floors, Enamel Beds, Automobiles, and All Varnished and Enameled Surfaces.) No. 24,464; June 6.
Purity Cream Cheese Company, The. (See Menasha Printing and Carton Company, assignor.)
Real Silk Hosiery Mills, Indianapolis, Ind. "Real Silk Fashioned Hosiery." (For Containers for Hosiery.) No. 24,465; June 6.
Red Gum Products Co. (See Creger, Henry N.)
Remington Arms Company, Inc., New York, N. Y., Bridgeport, Conn., and Ilion, N. Y. "Snipe Load." (For Loaded Shot Shells.) No. 24,466; June 6.
Remington Arms Company, Inc., New York, N. Y., Bridgeport, Conn., and Ilion, N. Y. "Duck Load." (For Loaded Shot Shells.) No. 24,467; June 6.
Remington Arms Company, Inc., New York, N. Y., Bridgeport, Conn., and Ilion, N. Y. "Heavy Duck Load." (For Loaded Shot Shells.) No. 24,468; June 6.

Remington Arms Company, Inc., New York, N. Y., Bridgeport, Conn., and Ilion, N. Y. "Brant Load." (For Loaded Shot Shells. No. 24,469; June 6.

Remington Arms Company, Inc., New York, N. Y., Bridgeport, Conn., and Ilion, N. Y. "Rabbit Load." (For Loaded Shot Shells.) No. 24,470; June 6.

Remington Arms Company, Inc., New York, N. Y., Bridgeport, Conn., and Ilion, N. Y. "Quail Load." (For Loaded Shot Shells.) No. 24,471; June 6.

Remington Arms Company, Inc., New York, N. Y., Bridgeport, Conn., and Ilion, N. Y. "Goose Load." (For Loaded Shot Shells.) No. 24,472; June 6.

Remington Arms Company, Inc., New York, N. Y., Bridgeport, Conn., and Ilion, N. Y. "Grouse Load." (For Loaded Shot Shells.) No. 24,473; June 6.

Seattle Ice Cream Company. (See Menasha Printing and Carton Company, assignor.)

Smith, Sidney, Chicago, Ill. "Andy Gump Drops." (For Candy.) No. 24,474; June 6.

Smith, Sidney, Chicago, Ill. "Andy Gump Drops." (For Candy.) No. 24,475; June 6.

Tillman Cigar Co., Natchez, Miss. "Tillman's Seal Havana." (For the Inside Lid of Cigar Boxes.) No. 24,476; June 6.

Tillman Cigar Co., Natchez, Miss. "Tillman's Seal Havana." (For the Ends of Cigar Boxes.) No. 24,477; June 6.

Turner Sales Co., The. (See Osbaldeston, Frank T.)

Virden Packing Company, South San Francsico and Oakland, Calif. "Virden's Dinty Moore" (For Cooked Corned Beef.) No. 24,478; June 6.

Waxtwell Paper Company, Grand Rapids, Mich. "Harvest." (For Bread.) No. 24,479; June 6.

Welch Grape Juice Company, The, Westfield, N. Y. "Grape Raspberry Jam." (For a Spread or Jam for Bread, Toast, and Muffins.) No. 24,480; June 6.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Baum, Strauss & Co., New York, N. Y. "Cotton Fabrics that Insure Profits." (For Advertising Purposes for Cotton Piece Goods.) No. 6,144; June 6.

Candy Craft, Inc., Chicago, Ill. "Take your pick of a Fliverstick." (For Advertising Purposes for Candy.) No. 6,145; June 6.

Elgin National Watch Company, Chicago, Ill. "The Value of TIME." (For Advertising Purposes for Watches.) No. 6,146; June 6.

Metsan Dental Mfg. Co., New York, N. Y. "Metsan Aseptic Needles." (For Advertising Purposes for Aseptic Needles.) No. 6,147; June 6.

Milwaukee Paper Box Company, Milwaukee, Wis. "Racine Heel Protector." (For Advertising Purposes for a Knitted Non-Slip Lining.) No. 6,148; June 6.

Phillips-Jones Corporation, New York, N. Y. "Van Heusen the World's Smartest Collar." (For Advertising Purposes for a Special Kind of Collar.) No. 6,150; June 6.

Salz Brothers, New York, N. Y. "Black & White." (For Advertising Purposes for Fountain Pens.) No. 6,151; June 6.

The Palmolive Company, Milwaukee, Wis. "Pretty when she wakes up." (For Advertising Purposes for Palmolive Soap.) No. 6,149; June 6.

Yellow Cab Manufacturing Co., Chicago, Ill. "Yellow Cabs take the Tax out of Taxicab." (For Advertising Purposes for Taxicabs.) No. 6,152; June 6.

Yellow Cab Manufacturing Co., Chicago, Ill. "Yellow Cabs Stand the Gaff." (For Advertising Purposes for Taxicabs.) No. 6,153; June 6.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abner-Drury Company, Washington, D. C. Ginger ale. No. 161,714; June 6.

Absorene Manufacturing Company, The, St. Louis, Mo. Wall-paper cleaner. No. 159,680; June 6.

Adler, Wilhelm, Karlsbad, Czecho-Slovakia. Absorbent charcoal in its raw state. Nos. 144,998–9; June 6.

Albert Neckwear Manufacturing Company, Dallas, Tex. Neckties, cravats, and neckscarfs. No. 149,792; June 6.

American Abrasive Metals Company, New York, N. Y. Stair treads and floor plates. No. 158,666; June 6.

American Chain Company, Inc., New York, N. Y., and Bridgeport, Conn. Antiskid chains for vehicle wheels. No. 155,005; June 6.

Andresen, Edward W., Chicago, Ill. Bituminous road top dressing. No. 160,786; June 6.

Antonopulos, John D., doing business as United Nut Stores, New York, N. Y. Nuts and fruits. No. 139,504; June 6.

Art Metal Toy Company, New Brunswick, N. J. Toys. No. 153,911; June 6.

Ashaway Line & Twine Manufacturing Company, Ashaway, R. I. Fishing line. No. 157,817; June 6.

Associated Radiograph Laboratories, San Francisco, Calif. Fiber-board frame used in displaying X-ray photographs of teeth. No. 161,220; June 6.

Atlantic Comb Works, New York, N. Y. Hair, cloth, flesh, and nail brushes. No. 128,382; June 6.

Aunt Nellie's Farm Kitchen, Hartford, Wis. Canned peas and corn. No. 154,174; June 6.

Baker Brush Co., Inc., New York, N. Y. Paintbrushes. No. 159,137; June 6.

Ballew, Elmer L., doing business as The Lite Lunch Company, Chicago, Ill. Pastry goods, both baked and cooked. No. 151,979; June 6.

Bamacea Company, Inc., Boston, Mass. Soaps. No. 159,338; June 6.

Barg & Foster Candy Co., Milwaukee, Wis. Chocolate-covered nut rolls. No. 154,429; June 6.

Barton & Co., Seattle, Wash. Meat and dairy products. No. 151,532; June 6.

Beech-Nut Packing Company, Canajoharie, N. Y. Bread. No. 155,658; June 6

Bellgrade Lumber Company, Memphis, Tenn. Hardwood lumber. Nos. 163,029–30; June 6.

Besson, Adolfo, Los Lunas, N. Mex. Preparation for the treatment of blood diseases. No. 153,123; June 6.

Bickum, Dorothy, New York, N. Y. Women's skirt drawers and combinations. No. 161,237; June 6.

Biedka, John P., Brooklyn, N. Y. Medicine for consumption, stomach poisoning, and for a general medicinal tonic. No. 158,968; June 6.

Black, Samuel L., doing business as Green Label Stove Polish Co., Boston, Mass. Stove polish. No. 159,994; June 6.

Bossong, Joseph C., doing business as J. C. Bossong & Co., New York, N. Y. Children's hose. No. 155,136; June 6.

Bourjois, A., & Co., Inc., New York, N. Y. Face powder, perfumes sold as extracts, crystallized brilliantines, and sachet powder. No. 156,951; June 6.

Bourjois, A., & Co., Inc., New York, N. Y. Perfumes sold as extracts and lotions. No. 156,948; June 6.

Bourjois, A., & Co., Inc., New York, N. Y. Rouge in the nature of compact and face powder. No. 156,949; June 6.

Bourjois, A., & Co., Inc., New York, N. Y. Toilet preparations, rouge, rouge powder, liquid rouge, etc. No. 157,404; June 6.

Branson, Howard I., & Co., Philadelphia, Pa. Children's dresses, coats, and caps. No. 155,429; June 6.

Bridgeport Brass Company, Bridgeport, Conn. Brass pipe. No. 159,074; June 6.

Bristol, William J., doing business as The Colonial Pretzel Company, Alexandria, Va. Pretzels. No. 151,818; June 6.

Brown, Young & Co. Inc., New York, N. Y. Dehydrated whole eggs, egg yolk, and egg albumen. No. 143,481; June 6.

Bryant Heater and Manufacturing Co., The, Cleveland, Ohio. Tubular gas boilers. No. 161,028; June 6.

Buhner, Ferdinand F., doing business as The Buhner Fertilizer Company, Seymour, Ind. Digester tankage used as a food for hogs and animals. No. 152,532; June 6.

Buhner, Fertilizer Company, The. (See Buhner, Ferdinand F.)

Bunny Coffee Company, The. (See Haase, Ernest.)

Byron Weston Company, Dalton, Mass. Writing paper. No. 156,558; June 6.

Cadillac Produce Company, Cadillac, Mich. Creamery butter. No. 148,833; June 6.

Candy Products Corporation, Chicago, Ill. Candy. No. 145,056; June 6.

Chinn, Rosa, New Orleans, La. Hair grease, hair oil, and shampoo. No. 156,265; June 6.

Cincinnati Frog and Switch Co., The, Cincinnati, Ohio. Switches and switch stands. No. 151,785; June 6.

Citrolene Company, The. (See Swearingen, Carl W.)

Colonial Pretzel Company, The. (See Bristol, William J.)

Columbian Enameling & Stamping Co., Terre Haute, Ind. Enameled steel teapots, coffeepots, biggins, teakettles, etc. No. 157,302; June 6.

Confederated Onion Growers Association, Portland, Oreg. Raw onions. No. 155,302; June 6.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Consolidated Rendering Co., Boston, Mass. Oleo oil for shortening purposes and used in the manufacture of butterine and deomargarine. No. 152,163; June 6.
Corno Mills Company, The, St. Louis, Mo. Cereal food products. Nos. 148,532–3; June 6.
Cracker Jack Co., The. (See Rueckheim Bros. & Eckstein, assignors.)
Crofts & Reed Co., Chicago, Ill. Toilet soap. No. 160,115; June 6.
Crown Brewing Co. Inc., The, Cincinnati, Ohio. Non-intoxicating, malt, cereal, and hop beverage. No. 161,969; June 6.
Delson Chemical Co., Inc., The, Brooklyn, N. Y. Medicinal preparation for the treatment and relief of rheumatism, gout, etc. No. 158,858; June 6.
Eagle Garment Company, Los Angeles, Calif. Women's and children's dresses, skirts, house robes, middies, etc. No. 156,892; June 6.
Eastern Aluminum Company, Boston, Mass. Aluminum utensils. No. 149,850; June 6.
Emery & Beers Company, Inc., New York, N. Y. Hosiery. No. 155,552; June 6.
Erickson, Frank E., Duluth, Minn. Constipation pencils. No. 158,920; June 6.
Esmond Mills, The, New York, N. Y. Blankets, blanket fabrics, and ribbons in the piece, cotton piece goods, etc. No. 155,672; June 6.
Euclid Candy Company, The, Cleveland, Ohio. Candy. No. 154,492; June 6.
Federal Grocery Co., Los Angeles, Calif. Canned fish, vegetables, and fruits, spices, peanut butter, etc. No. 154,870; June 6.
Fleming, H. L., doing business as H. L. Fleming Laboratory. Toothpaste. No. 161,246; June 6.
Frank & Co., Nashville, Tenn. Collars. No. 154,498; June 6.
Gaiety Garment Company. (See Kaufman Manufacturing Co., assignor.)
Gas & Electric Appliance Company, The, Cincinnati, Ohio. Gas ranges. No. 161,484; June 6.
Gasco Specialty Company, Inc., The, New York, N. Y. Nut-kernel paste. No. 155,056; June 6.
Gelband, Samuel C., New York, N. Y. Parasols and umbrellas. No. 160,058; June 6.
Gill Brothers Company, Steubenville, Ohio. Lamp chimneys, and shades, lantern globes, etc. No. 160,760; June 6.
Gipsolite Company, The, Buffalo, N. Y. Wall board, plaster board, and gypsum plaster. No. 160,937; June 6.
Goldenberg's, Washington, D. C. Fabric gloves. No. 154,142; June 6.
Graf-Rosen Co., New York, N. Y. Men's hats and caps. No. 148,935; June 6.
Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Canned sardines. No. 156,346; June 6.
Green Label Stove Polish Co. (See Black, Samuel L.)
Haase, Ernest, doing business as The Bunny Coffee Company, Brooklyn, N. Y. Prepared coffee extracts. No. 148,839; June 6.
Hallman, Emily, Chicago, Ill. Almond meal, foot, shampoo, and face powders, hair tonic, etc. No. 129,385; June 6.
Hansen Nursery & Floral Co. (See Hansen, William M.)
Hansen, William M., doing business as Hansen Nursery & Floral Co., Niles, Mich. Plants, shrubs, trees, cut flowers and flower and garden seeds. No. 160,192; June 6.
Hartmann Food Product Co. Inc., The, New York, N. Y. Almond paste. No. 150,146; June 6.
Heinisch, R., Sons Works. (See Wiss, J., & Sons Co.)
Henry Tetlow Company. (See Tetlow, Ida J.)
Herman, Frederick, doing business as Fred Herman Mfg. Co., Seattle, Wash. Misses' outer skirts. No. 154,270; June 6.
Herzog & Kramer, New York, N. Y. Bath robes. No. 152,891; June 6.
Hood, H. P., & Sons, Inc., Boston, Mass. Milk, cream, butter, cheese, and ice cream. No. 146,215; June 6.
Imperial Flour Mills Company, The, Wichita, Kans. Wheat flour, Graham flour, and corn meal. No. 152,056; June 6.
International Coffee Co., Houston, Tex. Coffee and tea. No. 155,175; June 6.
Irish Linen Society, Belfast, Ireland. Linen fabrics. No. 156,633; June 6.
J. A. and R. E. Solmes, St. Paul, Minn. Ladies' aprons, house dresses, etc. No. 156,202; June 6.
Jergens, Andrew, Company, The, Cincinnati, Ohio. Toilet soap. No. 161,191; June 6.
Jewett, Bigelow & Brooks, Detroit, Mich. Coal. No. 160,609; June 6.
Kanouse & Foote, Oakland, Calif. Bearings, pistons, piston, wrist, and fan-pulley pins, gears, etc. No. 152,624; June 6.
Kaplan, Scheuerle & Doyne, New York, N. Y. Hats and caps. No. 154,799; June 6.
Kaufman Manufacturing Co., assignor to Gaiety Garment Company, Tacoma, Wash. Kitchenette dresses, house dresses, etc. No. 156,641; June 6.
Kenilworth Manufacturing Co. Inc., New York, N. Y. Blouses, bloomers, skirts, knickers, underbloomers, overalls, etc., for females. No. 150,110; June 6.
Keystone Steel & Wire Company, Peoria, Ill. Wire fencing and barb wire. No. 157,997; June 6.
Kirk, Royden C., doing business as Klever Kraft Co., Medford, Mass. Hook corners for hanging pictures, etc. No. 156,534; June 6.
Klatte Coffee Company, Terre Haute, Ind. Coffee. No. 150,540; June 6.
Klever Kraft Co. (See Kirk, Royden C.)
Krag, Leona A., Chicago, Ill. Nom de plume on newspaper and magazine articles. No. 151,919; June 6.
Krauss, Herman, Toledo, Ohio. Malt extracts. No. 162,422; June 6.
Kuster, Madeleine, Ossining, N. Y. Infants' coats. No. 155,620; June 6.
L. S. E. Co., Inc., Brooklyn, N. Y. Fancy linens. No. 159,158; June 6.
La Grace Dress Panel Manufacturing Co., Penns Grove, N. J. Dress panels. No. 124,008; June 6.
Langmann, V., Inc., New York, N. Y. Olive oil. No. 156,998; June 6.
Lay & Way Co., The, New York, N. Y. Underwaists, body waists, corset waists, corsets, etc. No. 147,927; June 6.
Levy & Marcus, New York, N. Y. Neckties and scarfs. No. 149,967; June 6.
Lilly, Eli, & Company, The, Indianapolis, Ind. Medicinal preparation for use as a heart tonic or stimulant. No. 158,987; June 6.
Lite Lunch Company, The. (See Ballew, Elmer L.)
Little Goddess Dress Co., Inc., New York, N. Y. Outer clothing for girls. No. 154,315; June 6.
Long Island Knitting Mills Co., Brooklyn, N. Y. Bathing suits. No. 156,497; June 6.
Lowe, Joe, Co. Inc., New York, N. Y. Dehydrated whole eggs, egg yolk, and egg albumen. No. 143,503; June 6.
Lowenstein, M. W., & Co. Inc., New York, N. Y. Neckwear. No. 154,148; June 6.
Lunkenheimer Company, The, Cincinnati, Ohio. Pop-valve mufflers, steam and air whistles, steam-boiler oil injectors, etc. No. 126,940; June 6.
Lyndon Chemical Company, The, Dayton, Ohio. Veterinary ointment for caked udders, sprains, bruises, etc. No. 159,039; June 6.
McDonnell, Edw., & Co. (See McDonnell, Edward.)
McDonnell, Edward, doing business as Edw. McDonnell & Co., Smiths Ferry, Pa. Internal medicine for the relief of asthma, croup, etc. No. 158,135; June 6.
McKeon, John H., trading as J. H. McKeon, Ph. G. Better Health Products, Holyoke, Mass. Laxatives. No. 145,904; June 6.
Macy, R. H., & Co., Inc., New York, N. Y. Sheets and pillowcases. No. 144,925; June 6.
Maddocks, Thomas, Sons Company, Trenton, N. J. Tanks for water closets, lavatories, etc. No. 158,481; June 6.
Magic Nail Polish Co., New York, N. Y. Nail polish liquid, powder, and cake. No. 158,323; June 6.
Mallinson Bros., West Salem, Ill. Wheat flour, hard-wheat flour, pastry flour, cake flour, and bran. No. 151,883; June 6.
Marvellum Company, The, Holyoke, Mass. Cover paper. No. 161,139; June 6.
Maxwell, S. A., & Co., Chicago, Ill. Window-shade brackets. No. 157,939; June 6.
Merrell, J. S., Drug Company, St. Louis, Mo. Lump and powdered alum, copper sulphate, powdered boric acid, etc. No. 137,889; June 6.
Metallurgische Gesellschaft Richard Walter & Co., Dusseldorf, Germany. Castings made from acid-resisting alloys. No. 136,123; June 6.
Mi Favorita Cigar Company, Inc., New York, N. Y. Cigars, cigarettes, smoking and chewing tobacco. No. 158,721; June 6.
Millers Falls Company, Millers Falls, Mass. Angular bit stocks and drilling machines, bits, and augers, etc. No. 143,990; June 6.
Mint Products Co., Incorporated, Port Chester, N. Y. Cigars, cigarettes, smoking and chewing tobacco. No. 159,520; June 6.
Moellering's, Wm., Sons, Fort Wayne, Ind. Stucco. No. 160,823; June 6.
Moore, Walton N., Dry Goods Co., San Francisco, Calif. Knitted hosiery and underwear. No. 143,875; June 6.
Morrissey, E. A., Company, Boston, Mass. Medicinal tonics for bronchial troubles, colds, etc. No. 146,225; June 6.
Morse & Burt Co., Inc., Brooklyn, N. Y. Appliances for obtaining casts for fitting shoes. No. 162,307; June 6.
Mortona Medicine Co. (See Swinburne, Arthur H.)
Mutual Hosiery Mills, Inc., Philadelphia, Pa. Full-fashioned and seamless silk hosiery. No. 155,824; June 6.
Mutual Pharmacal Company, Boston, Mass. Chocolate laxative tablets. No. 158,053; June 6.
National Magnesite Stucco Co., The, Wyandotte, Mich. Magnesite stucco. No. 160,962; June 6.
Naumkeag Steam Cotton Co., Salem, Mass. Sheets and pillowcases. No. 145,847; June 6.
New England Brewing Company, Jersey City, N. J., and Boston, Mass. Cane and maple-sugar sirup. No. 155,768; June 6.
Nichols Candy Company, The, Indianapolis, Ind. Candy. No. 152,031; June 6.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Obrecht, G. Fred., trading as P. Fred'k Obrecht & Son, Baltimore, Md. Temptor pure wheat flour and corn meal. No. 147,939; June 6.
Obrecht, P. Fred'k, & Son. (See Obrecht, G. Fred.)
Omaha Tanning Co., Omaha, Nebr. Leather. No. 160,425; June 6.
Ovington Bros. Company, New York, N. Y. Nonelectric oil lamps, candlesticks, and candelabra. No. 142,404; June 6.
Owl Drug Company, The, San Francisco, Calif. Cleaning fluid for shoes and leather goods. No. 160,965; June 6.
Pannett & Neden, London, England. Pomatum dressing for the hair. No. 157,332; June 6.
Paraffine Companies, Inc., The, San Francisco, Calif. Waterproof and weatherproof roofings. No. 162,644; June 6.
Paramount Knitting Company, The, Chicago, Ill. Textile articles—namely, hosiery. No. 156,175; June 6.
Parfumerie Roger & Gallet, Paris, France. Soaps, soap pastes, and soap powder. No. 160,079; June 6.
Paristyle Novelty Co. Inc., New York, N. Y. Hair nets. No. 158,437; June 6.
Parke, Davis & Company, Detroit, Mich. Buttermilk tablets for making artificial buttermilk. No. 155,704; June 6.
Paterson Knitting Mills, Inc., Paterson and Ramsey, N. J. Full fashioned and seamless silk hosiery. No. 155,828; June 6.
Patterson and Hoffman, Oklahoma, Okla. Cigars. No. 160,251; June 6.
Pelzer Manufacturing Company, Pelzer, S. C. Cotton piece goods. No. 159,219; June 6.
Penney, J. C., Company, Salt Lake City, Utah, and New York, N. Y. Men's and boys' work shirts, boys' blouses and playsuits. No. 156,858; June 6.
"Perolin" Fabrikationsgesellschaft m. b. H., Vienna, Austria. Spray diffusers for fluids. No. 146,779; June 6.
Perry and Company, Limited, Birmingham, England. Driving chains for cycles. No. 155,826; June 6.
Pittsburgh Importing & Manufacturing Co., Pittsburgh, Pa. Preserves and cheese. No. 149,975, June 6.
Porter, Arthur L., New York, N. Y. Powder for foot baths. No. 158,891; June 6.
Progressive Grocery Stores, Inc., New York, N. Y. Sugar, butter and substitutes, cocoa, chocolates, candy, etc. No. 148,032; June 6.
Quick, Harry O., doing business as Quick Shoe Company, Brockton, Mass. Leather boots and shoes. No. 156,713; June 6.
Quick Shoe Company. (See Quick, Harry O.)
Quinorient Company, Inc., New York, N. Y. Hair tonic. No. 158,894; June 6.
Reid, Murdoch & Co., Chicago, Ill. Cigars. No. 156,804; June 6.
Remington Arms Company, Inc., Bridgeport, Conn.; Ilion, N. Y.; Swanton, Vt., and New York, N. Y. Pocketknives and parts thereof. No. 151,481; June 6.
Remmers Soap Company, The, Cincinnati, Ohio. Soap. No. 161,580; June 6.
Rice-Stix Dry Goods Company, St. Louis, Mo. Women's frocks and dresses. No. 156,600; June 6.
Rieser Company, The, New York, N. Y. Soaps. No. 161,013; June 6.
Rieser Company, The, New York, N. Y. Soaps. No. 161,201; June 6.
Rite Form Corset Co., Inc, The, New York, N. Y. Corsets. No. 154,569; June 6.
Roach, W. R., & Co., Hart, Mich. Canned vegetables. No. 113,167; June 6.
Roberts, Ward P., Milford, Mass. Cigars. No. 127,150; June 6.
Romero, Rafael, Tucson, Ariz. Candy. No. 156,923; June 6.
Rubberized Sheeting & Specialty Co., Inc., New York, N. Y. Waterproof aprons. No. 157,044; June 6.
Rueckheim Bros. & Eckstein, Chicago, assignor to The Crack r Jack Co., Peoria, Ill. Chocolate bars. No. 124,622; June 6.
Rutland Fire Clay Co., Rutland, Vt. Patching plaster for walls, liquid roof cement, etc. No. 162,455; June 6.
Saab, Alexander N., New York, N. Y. Batiste lingerie. No. 156,863; June 6.
Sawyer Belt Hook Co. (See Sawyer, John D.)
Sawyer, John D., doing business as Sawyer Belt Hook Co., Pawtucket, R. I. Belt hooks. No. 158,896; June 6.
Schaefer, Eugene J., Dayton, Ohio, executor of the estate of Joseph J. Schaefer, deceased, doing business as Joseph J. Schaefer. Cigars. No. 146,994; June 6.
Schaefer, Joseph J. (See Schaefer, Eugene J.)
Seattle Cap Manufacturing Co., Seattle, Wash. Caps and hats for men, women, and children. No. 152,449; June 6.
Sensat, G. Hijos, Barcelona, Spain. Olive oil. No. 155,345; June 6.
Seven Oils Co. Inc., The, Boston, Mass. Soaps. No. 161,069; June 6.
Simon, Franklin & Co. Inc., New York, N. Y. Men's, boys', women's, girls', and misses' furnishings, undergarments, and clothing. No. 152,720; June 6.
Sinclare, A. C., Co., New York, N. Y. Chemical rust remover. No. 142,537; June 6.
Smith, Jane B., doing business as Jane B. Smith, Chicago, Ill. Salad dressing, foods, and ingredients of foods. No. 154,536; June 6.
Smith Shoe Co. Inc., Lynn, Mass. Leather and fabric boots, shoes, and slippers and rubbers. No. 157,736; June 6.
Snider & Cazel, Wilmette, Ill. Fudge. No. 119,085; June 6.
Spoon Products, The. (See Witherspoon, Thomas S.)
Standard Crayon Manufacturing Co., Danvers, Mass. Wax and chalk crayons. Nos. 161,779–802; June 6.
Standard Oil Company, San Francisco, Calif. Heating and illuminating oils. No. 150,977; June 6.
Stanard Tilton Milling Co., St. Louis, Mo. Wheat flour. No. 137,971; June 6.
Stronge and Warner Company, St. Paul, Minn. Ladies' hats. No. 157,009; June 6.
Suffern, Robert A., New York, N. Y. Cotton piece goods. No. 154,332; June 6.
Swearingen, Carl W., doing business as The Citrolene Company, Los Angeles, Calif. Face creams and lotions. No. 143,575; June 6.
Swift and Company, Chicago, Ill. Corned beef. No. 139,326; June 6.
Swinburne, Arthur H., doing business as Mortona Medicine Co., Middletown, N. Y. Medicine for the treatment of the stomach, liver, etc. No. 158,265; June 6.
Taylor and Watson, Inc., Dover, Del., and New York, N. Y. Hosiery. No. 155,373; June 6.
Telechronometer Company of America, The, Seattle, Wash. Meters for automatically recording the length of telephone conversation in units of time. No. 156,204; June 6.
Tennessee Eastman Corporation, Kingsport, Tenn. Charcoal not specially prepared for decolorizing or deodorizing. No. 160,517; June 6.
Tetlow, Ida J., trading as Henry Tetlow Company. Toilet preparations. No. 159,062; June 6.
Thau, Charles K., New York, N. Y. Hair nets. No. 144,649; June 6.
Thomas Company, Philadelphia, Pa. Antileak compound. No. 143,230; June 6.
Thuman, Joseph M., Buffalo, N. Y. Children's rompers and playsuits, blouses, and girls' dresses. No. 151,070; June 6.
Trinity Chemical Corporation, White Plains, N. Y. Washing compound for general household, kitchen, and laundry purposes. No. 160,443; June 6.
Trinity Chemical Corporation, White Plains, N. Y. Cleanser for industrial, household, and all general cleaning. No. 160,444; June 6.
Tru-Blu Biscuit Company, Spokane, Wash. Cookies or English style biscuit. No. 144,484; June 6.
U. S. Carburetor Co. Inc., New York, N. Y. Carburetors. No. 151,189; June 6.
United Drug Company, Boston, Mass. Toothbrushes. No. 160,520; June 6.
United Drug Company, Boston, Mass. Toothbrushes. No. 161,758; June 6.
United Nut Stores. (See Antonopulos, John D.)
United States Overall Manufacturing Company, The, Cincinnati, Ohio. Overalls, overall coats, trousers, etc. No. 156,607; June 6.
Van Dyk & Lindsay, Inc., New York, N. Y. Tunis dates, Colmar grapes, Muscatel grapes, etc. No. 156,184; June 6.
Virden Packing Company, Oakland, Calif. Canned fruits and vegetables. No. 154,901; June 6.
Virden Packing Company, Oakland, Calif. Canned fruits and vegetables. No. 154,904; June 6.
Weisenburger, Sig., & Co., New York, N. Y. Ladies' trimmed and tailored hats. No. 157,120; June 6.
Wenger, S. A., & Co., Inc., New York, N. Y. Raw silk. No. 162,152; June 6.
Western Cartridge Company, East Alton and Springfield, Ill. Powder and ammunition containing the same. No. 143,728; June 6.
White & Wyckoff Manufacturing Company, Holyoke, Mass. Writing paper tablets, papeteries, typewriter tablets, etc. No. 158,024; June 6.
Whyt E Nami Specialty Co., Inc., Brooklyn, N. Y. Bathroom fixtures and enameled ware. No. 159,003; June 6.
Wincroft Stove Works, Middletown Borough, Pa. Coal and gas stov s. No. 161,663; June 6.
Winget Manufacturing Co., The, Minneapolis, Minn. Bloomers, children's coveralls, and sleeping garments. No. 155,382; June 6.
Wiss, J., & Sons Co., Newark, N. J. Shears, scissors, snips, clippers, razors, razor blades. No. 153,193; June 6.
Wiss, J., & Sons Co., trading as R. Heinisch Sons Works, Newark, N. J. Shears, scissors, snips, clippers, razors, razor blades. No. 153,631; June 6.
Witherspoon, Thomas S., doing business as The Spoon Products, Denver, Colo. Carbon remover. No. 147,541; June 6.
Wolfeboro Mills, Wolfeboro, N. H. Cotton and wool blankets, robes, and rugs. No. 159,395; June 6.
Wright's Underwear Company, Incorporated, New York, N. Y. Knit underwear for women and children. No. 155,076; June 6.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 6TH DAY OF JUNE, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Accelerator. R. B. Naylor. No. 1,418,824; June 6.
Acetylene. Chlorination of. K. Röka. No. 1,418,882; June 6.
Acid. Distilling sulphuric. G. Baum. No. 1,419,008; June 6.
Acid esters and preparation of same. Tropinone monocarboxylic. R. Willstätter, O. Wolfes, and H. Maeder. No. 1,419,091; June 6.
Acid esters. Preparation of tropinone monocarboxylic. O. Wolfes and H. Maeder. No. 1,419,092; June 6.
Adjustable screen. L. Caretto. No. 1,418,284; June 6.
Aerial torpedo. L. B. Sperry. No. 1,418,605; June 6.
Aerial torpedo or drop bomb. J. H. Swan. No. 1,418,606; June 6.
Aeroplane. H. L. Boyle. No. 1,418,522; June 6.
Aeroplane. C. Loski. No. 1,418,943; June 6.
Aeroplane. W. W. Wert. No. 1,418,502; June 6.
Aeroplane landing gear. C. F. Willard. No. 1,418,762; June 6.
Aeroplanes, Automatic pilot for. E. A. Sperry. No. 1,418,335; June 6.
Agricultural implement. W. D. Dewend. No. 1,418,780; June 6.
Air-brake apparatus. S. G. Neal. No. 1,418,961; June 6.
Air-brake detail. M. H. Ryan. No. 1,418,400; June 6.
Air moistener. R. P. Link. No. 1,418,942; June 6.
Air-purifying apparatus. J. B. Gohmann. No. 1,418,296; June 6.
Aircraft, Ball bearing for the rudder surfaces of. H. von Fresnery. No. 1,418,993; June 6.
Aircraft, Ballast container for. K. Stahl. No. 1,418,491; June 6.
Aircraft, Speaking-tube apparatus for. B. F. Miessner. No. 1,418,388; June 6.
Alarm system. F. E. Crawford. No. 1,418,628; June 6.
Alloy, Aluminum. H. C. Hall. No. 1,418,303; June 6.
Altitude meter. A. Harila. No. 1,418,922; June 6.
Amusement device. C. W. Wilson. No. 1,418,999; June 6.
Anchor hook. A. Capirosso. No. 1,419,016; June 6.
Andiron. W. C. Ward. No. 1,418,411; June 6.
Animal trap. C. Cain. No. 1,418,864. June 6.
Annunciator. W. T. Dippel. No. 1,418,702; June 6.
Annunciator, Call. H. F. Plumb. No. 1,418,969; June 6.
Antiskid chains. Detachable link for vehicle-wheel. R. B. Paddock. No. 1,418,392; June 6.
Antislipping device. J. D. Groover. No. 1,418,916; June 6.
Arc welding, Constant-current generator for. K. L. Hansen. No. 1,418,707; June 6.
Armor, Protective light. A. R. Wallace. No. 1,418,995; June 6.
Auto control, Safety. A. Minnick. No. 1,418,601; June 6.
Auto heel rest. F. Philipps. No. 1,418,968; June 6.
Auto lights, Electric time switch for. B. B. Tregoe and J. D. Carroll. No. 1,418,748; June 6.
Automobile air deflector. W. W. Cole. No. 1,418,430; June 6.
Automobile buffer attacher. G. A. Lyon. No. 1,418,946; June 6.
Automobile bumpers, Attaching device for. I. D. Perry. No. 1,418,395; June 6.
Automobile controlling device. J. Blackburn. No. 1,418,278; June 6.
Automobile direction indicator. G. Marsile. No. 1,419,069; June 6.
Automobile engine primer. T. J. McCarthy. No. 1,418,591; June 6.
Automobile engine starter. H. L. Meeder. No. 1,418,449; June 6.
Automobile-radiator attachment. C. E. Spaid. No. 1,418,334; June 6.
Automobile radiator cover. J. W. Parks. No. 1,418,393; June 6.
Automobile radius rod. O. E. Watson. No. 1,418,759; June 6.
Automobile shock absorber and stabilizer. T. C. Luce. No. 1,418,813; June 6.
Automobile washer. F. J. McGowan. No. 1,418,383; June 6.
Automobile wheels, Side chain shackle for. E. E. Chapman. No. 1,418,534; June 6.
Automobile, Clutch-pedal control for. M. Wagner. No. 1,418,340; June 6.
Automobiles, Tractor attachment for. E. G. Staude. No. 1,418,842; June 6.
Autotruck. T. J. McCarthy. No. 1,419,067; June 6.
Awl motion. F. E. Valois. No. 1,418,751; June 6.
Awning, Window. J. Auermiller. No. 1,418,860; June 6.
Axle. N. C. Bement. No. 1,418,613; June 6.
Axle construction. C. M. Billings. No. 1,418,276; June 6.
Axles, Runner-attaching device for wagon. G. Riedler. No. 1,418,829; June 6.
Bag: *See*—
Carry bag.
Coal bag.
Bait, Artificial. C. F. Pflueger and W. L. Adams. No. 1,418,326; June 6.
Ball-lapping machine. A. F. Rockwell. No. 1,419,078; June 6.
Ball-lapping machine. R. W. Sellew. No. 1,418,887; June 6.
Basket. T. M. Woodhull. No. 1,418,508; June 6.
Bath: *See*—
Electromagnetic wave bath.
Batteries, Implement for removing separators from storage. E. A. Foetisch. No. 1,418,554; June 6.
Bean sheller. B. Morelock. No. 1,419,072; June 6.
Bearing, Ball. R. R. Searles. No. 1,418,886; June 6.
Bearing, Ball. R. W. Sellew. No. 1,418,888; June 6.
Bearing cage, Roller-. W. C. Keys. No. 1,418,652; June 6.
Bearing, Roller. J. B. Birgh. No. 1,418,277; June 6.
Bearing, Roller. W. S. Halsey. No. 1,418,304; June 6.
Bearing, Shaft. C. W. Dake. No. 1,418,366; June 6.
Bearing shim and wear-compensating washer, Combined. J. G. Hamlin. No. 1,418,920; June 6.
Bearing, Thrust. J. J. Kane. No. 1,418,804; June 6.
Bed. A. J. Kreuzkamp. No. 1,418,382; June 6.
Bed. G. R. McAllaster. No. 1,418,589; June 6.
Bed, Collapsible automobile. J. F. Cooper. No. 1,418,287; June 6.
Bed-cover-retaining device, Flexible. S. H. Buttrick. No. 1,419,015; June 6.
Belt and supporter, Money. C. Foster. No. 1,418,371; June 6.
Bench: *See*—
Work-clamping bench.
Benzene, toluene, and other aromatic hydrocarbons, Manufacture of. W. F. Rittman. No. 1,419,123; June 6.
Beryllium compounds, Production of. L. Burgess. No. 1,418,527; June 6.
Binder lock. C. F. McBee. No. 1,418,314; June 6.
Block: *See*—
Building block.
Block mold, Curved-. D. Fix. No. 1,418,636; June 6.
Blood-cell calculator. M. M. Marbel. No. 1,418,384; June 6.
Blower. N. E. Funk. No. 1,418,910; June 6.
Bobsled. O. M. Gerder. No. 1,418,299; June 6.
Body construction, Removable. D. W. Perin. No. 1,418,966; June 6.
Boiler cleaner. A. A. Olson. No. 1,418,670; June 6.
Book, Bank. M. Lichter. No. 1,419,065; June 6.
Boring machine. C. M. Haviland and L. C. Brown. No. 1,418,923; June 6.
Boring tool. J. H. Smith. No. 1,418,485; June 6.
Bottle. D. E. Lutz and F. D. Folsom. No. 1,418,814; June 6.
Bottle closure, Milk-. F. Hachmann. No. 1,418,439; June 6.
Bottle-cooling chest. L. H. Bannister. No. 1,418,692; June 6.
Bottle, Nursing. W. S. Alvey. No. 1,418,268; June 6.
Bottle stopper. A. Y. S. Album. No. 1,419,003; June 6.
Box. C. T. Wootten. No. 1,418,897; June 6.
Box-cover support. F. N. Prince. No. 1,418,673; June 6.
Bracket: *See*
Spring bracket.
Bracket. G. W. Ferrel. No. 1,418,551; June 6.
Brake and transmission bands, Treating. W. K. Boileau. No. 1,418,695; June 6.
Brake beam. R. H. Oliver. No. 1,418,791; June 6.
Bread-cutting machine. E. W. Knowlton. No. 1,418,874; June 6.
Bread-slicing machine. J. W. Ayala. No. 1,418,511; June 6.
Brick hacking, Method and means for. J. B. Ladd. No. 1,418,658; June 6.
Brick-scoring mechanism. W. F. Richey. No. 1,418,880; June 6.
Bubble blower. L. L. Voelchert. No. 1,418,755; June 6.
Buffing machine. H. G. Ballou. No. 1,418,863; June 6.
Building block. A. H. Roeth. No. 1,419,079; June 6.
Building column. J. Lally. No. 1,418,581; June 6.

Building construction. C. M. Goodrich. No. 1,418,297; June 6.
Buildings from one site to another, Moving. O. Alexander. No. 1,418,510; June 6.
Burner: *See*—
Gaseous-fuel burner. Oil burner.
Burner. F. W. Balster. No. 1,418,422; June 6.
Button, Garment-fastener. J. Maltby. No. 1,418,819; June 6.
Button, Garment-fastener. T. Miller. No. 1,418,823; June 6.
Button, Link. E. Klawans. No. 1,418,934; June 6.
Buttons, Ornamental covering for shoe. T. H. Fishel. No. 1,419,034; June 6.
Butyric aldehyde, Manufacture of. D. A. Legg. No. 1,418,448; June 6.
Cabinet, Store service. H. T. Granbow. No. 1,418,787; June 6.
Calculator. J. E. Lysen. No. 1,418,947; June 6.
Camera films, Attacher and automatic sealer for. E. E. Thrasher. (Reissue). No. 15,377; June 6.
Camera, Photographic. J. Bordigion. No. 1,418,280; June 6.
Camera stand. L. D. Wright. No. 1,418,898; June 6.
Cameras, Periscope attachment for motion-picture. W. C Cox. No. 1,418,364; June 6.
Can: *See*—
Oil can.
Candy-wrapping machine. F. B. Lantery. No. 1,418,659; June 6.
Canning apparatus. S. T. Hoyt and J. S. Napier. No. 1,418,574; June 6.
Canning apparatus, Conveyer chain for. S. T. Hoyt and J. S. Napier. No. 1,418,572; June 6.
Caoutchouc and caoutchouc like products, Manufacture of. P. Schidrowitz No. 1,418,976; June 6.
Caoutchouc, Vulcanizing. C. W. Bedford. No. 1,418,772; June 6.
Caoutchouc, Vulcanizing. C. W. Bedford and R. L. Sibley. No. 1,418,771; June 6.
Car, Ballast. W. R. Scott. No. 1,418,402; June 6.
Car, Coal. A. Leu. No. 1,418,722; June 6.
Car coupling. J. H. Funk. No. 1,418,784; June 6.
Car coupling, Automatic. B. L. Baldwin. No. 1,418,861; June 6.
Car coupling, Automatic railway. A. Bernardi. No. 1,419,009; June 6.
Car-door opener, Grain-. I. B. White. No. 1,418,343; June 6.
Car replacer. A. N. Lyberger. No. 1,418,588; June 6.
Car roof. W. P. Murphy. No. 1,418,959; June 6.
Cars, Indicating and manhole-locking safety valve for tank. C. L. Burnham. No. 1,418,530; June 6.
Cars, Irreversible steering gear for Ford. G. A. Schipper. No. 1,418,679; June 6.
Cars, Load-carrying attachment for motor. J. Guille. No. 1,418,438; June 6.
Carbon black, lampblack, and hydrogen, Manufacturing. H. J. Masson. No. 1,418,385; June 6.
Carburetor. J. M. Flannery and F. C. Dettelbach. No. 1,419,035; June 6.
Carburetor. S. D. Waldon. No. 1,418,756; June 6.
Carburetor. F. G. Washburn. No. 1,418,499; June 6.
Carpenter's plane. C. Bailey. No. 1,418,513; June 6.
Carrier: *See*—
Endless carrier. Tire carrier.
Luggage carrier.
Carry bag. R. C. Groh. No. 1,418,705; June 6.
Case: *See*—
Clock case.
Casing-pulling device. G. W. Carter and R. B. Hayden No. 1,418,533; June 6.
Casing wrench. R. A. Wilson. No. 1,418,767; June 6.
Caster. W. F. Herold. No. 1,418,711; June 6.
Casting apparatus. S. McFarland. No. 1,418,949; June 6.
Casting-machine mold, Rotary. W. A. Oubridge. No. 1,418,826; June 6.
Castings and the like, Machine for cleaning. W. A Hext. No. 1,419,118; June 6.
Catamenial sack. J. A. Gunderson. No. 1,419,044; June 6.
Cellulose ether solvent and composition. W. R. Webb. No. 1,418,413; June 6.
Chair: *See*—
Opera chair.
Chair or seat. H. J. Barrett. No. 1,419,006; June 6.
Chart. W. R. Williamson. No. 1,418,765; June 6.
Churn and butter worker, Combined. H. Feldmeier and C. B. Dalzell. No. 1,419,033; June 6.
Chutes, Automatic gate for delivery. S. T. Hoyt and J. S. Napier. No. 1,418,573; June 6.
Cinematographic apparatus, Supporting device for. P. S. Gauriat. No. 1,418,640; June 6.
Clamp: *See*—
Pipe clamp.
Cleaner: *See*—
Boiler cleaner. Tobacco-pipe cleaner.
Cleaning tubes, Appliance for. C. D. Hoff. No. 1,418,925; June 6.
Cleansing composition. E. E. Hullinger. No. 1,418,800; June 6.
Clip: *See*—
Clothes clip. Paper clip.
Clock case. C. H. Hyde. No. 1,418,649; June 6.
Clock, Keyless. A. L. Sohm. No. 1,418,487; June 6.
Clock, Metal. C. E. Williams. No. 1,418,895; June 6.
Clothes clip. H. Dobesch. No. 1,418,543; June 6.
Clothes wringer. W. H. Meyer. No. 1,418,821; June 6.
Clothes wringer. T. and P. Straka. No. 1,418,890; June 6.
Clothesrack. K. T. Barrett. No. 1,419,007; June 6.
Clutch and brake, Combined. J. S. Townsend. No. 1,418,747; June 6.
Clutch, Centrifugal. C. F. Asplund. No. 1,418,350; June 6.
Clutch, Hydraulic. J. S. Wignall, Jr., and O. E. McClellan. No. 1,418,761; June 6.
Clutch release, Automatic. C. E. Cain. No. 1,418,619; June 6.
Clutch, Sleeveless reversing. D. C. Klausmeyer. No. 1,418,805; June 6.
Coal bag. H. Josephson. No. 1,418,717; June 6.
Coal or the like and for separating it from its impurities, Apparatus for washing. H. P. Hoyle. No. 1,418,442; June 6.
Coal, Treatment of materials containing. E. Edser, H. L. Sulman, and F. B. Jones. No. 1,418,547; June 6.
Cofferdam construction. W. H. Rice. No. 1,418,879; June 6.
Coffeepot, Drip. E. S. Gardiner. No. 1,418,436; June 6.
Coil-box protector. P. C. Morris. No. 1,419,120; June 6.
Coloring matter for beer, Manufacturing a. H. Lüers. No. 1,418,945; June 6.
Combination lock. J. Sleivis. No. 1,418,681; June 6.
Combing machine. J. W. Clegg. No. 1,418,908; June 6.
Compass and sun dial, Combination. G. Hollinwood. No. 1,418,926; June 6.
Concrete-chute distributing system. J. F. Robb. No. 1,418,738; June 6.
Concrete-pipe machine. J. G. Zwicker. No. 1,418,859; June 6.
Conduit fastener. J. M. Fitz Gerald. No. 1,418,370; June 6.
Connecting device. H. L. Jones. No. 1,419,112; June 6.
Conveyer. J. E. McBride. No. 1,418,590; June 6.
Cooker. R. Kania. No. 1,418,378; June 6.
Cooler: *See*—
Milk cooler.
Cord support. C. M. Myers. No. 1,418,960; June 6.
Cotton press, Round-bale. H. A. W. Howcott. No. 1,418,441; June 6.
Counter train. A. C. Wood. No. 1,418,507; June 6.
Coupling: *See*—
Automatic car coupling. Car coupling.
Automatic railway-car coupling.
Coupling expander. H. A. Larson. No. 1,418,721; June 6.
Covering machine. R. R. Williams. No. 1,419,090; June 6.
Crank-pin sleeve. C. C. Bettenhausen. No. 1,418,519; June 6.
Crib. M. Demlinger. No. 1,418,541; June 6.
Culinary vessel. T. C. Davidson. No. 1,418,432; June 6.
Cultivator. J. J. Kovar. No. 1,418,807; June 6.
Cultivator. J. D. Rodgers. No. 1,418,675; June 6.
Cultivator. J. R. Walton. No. 1,418,342; June 6.
Currency series. E. E. Austin. No. 1,418,611; June 6.
Current, Transformation of direct. M. Schenkel. No. 1,418,477; June 6.
Cushion mechanism. E. J. Glackin. No. 1,418,912; June 6.
Cut-off mechanism. W. F. Grupe. No. 1,418,437; June 6.
Cutter: *See*—
Pie cutter. Sleet cutter.
Potato cutter.
Cutting machine. H. H. Freer. No. 1,419,037; June 6.
Cylinder reboring and regrinding machine, Portable. J. F. Swatzell. No. 1,418,744; June 6.
Dehydrating material, Method of and apparatus for. F. Maus. No. 1,418,386; June 6.
Dental appliance. C. E. Kells. No. 1,418,445; June 6.
Dial train. O. Doll. No. 1,419,029; June 6.
Die: *See*—
Shoe-sole die.
Die. M. L. Kaufman. No. 1,419,056; June 6.
Diestock. I. W. Nonneman. No. 1,418,323; June 6.
Dipper tooth. G. R. Hanks and R. Somerville. No. 1,419,047; June 6.
Directory. F. W. Bacon. No. 1,418,269; June 6.
Display box. M. A. Hirschl. No. 1,418,798; June 6.
Display or advertising device. W. G. Shelton. No. 1,418,740; June 6.
Display rack. A Hamilton. No. 1,418,563; June 6.
Display vehicle. G. Mensoian. No. 1,418,596; June 6.
Distillation process and product thereof. J. M. Weiss. No. 1,418,893; June 6.
Distilling apparatus. P. Anders and P. M. Ginnings. No. 1,418,691; June 6.
Door fastener, Adjustable portable. R. E. MacKellar. No. 1,418,593; June 6.
Door hanger. F. K. Fassett. No. 1,418,549; June 6.
Door-operating means. H. G. Ainsworth. No. 1,418,420; June 6.
Door-operating mechanism. A. Campbell. No. 1,418,907; June 6.
Doors, Device for securing and supporting. H. Miller. No. 1,418,822; June 6.
Dress, Bloomer. M. Klein. No. 1,419,059; June 6.

Drill: *See*—
Rock drill.
Drill column, Pneumatic. H. I. Stage. No. 1,418,336; June 6.
Drilling machines, Supporting and clamping mechanism for. W. T. Sears. No. 1,418,837; June 6.
Drive mechanism, Differential. W. H. Harris. No. 1,418,565; June 6.
Drive mechanism, Friction. H. W. Bell and H. L. Hoyt, Jr. No. 1,418,355; June 6.
Dust-cap construction. A. E. Bronson. No. 1,418,524; June 6.
Dust guard. R. F. Darby. No. 1,418,540; July 6.
Dyestuffs and making same, Halogen derivatives of basic acridine. C. Vaucher and R. Speitel. No. 1,418,852; June 6.
Dynamo, Self-regulating continuous-current. A. H. Midgley. No. 1,419,071; June 6.
Earring. A. G. Cicerchi. No. 1,419,021; June 6.
Earth-handling apparatus for use in irrigation. P. M. Bangle. No. 1,419,101; June 6.
Edible product obtained from the sugar juices of beets and obtaining it. P. Kestner. No. 1,419,057; June 6.
Egg-dipping machine. O. F. Holmberg. No. 1,418,927; June 6.
Electric and gas heater, Combination. C. A. Muir. No. 1,418,667; June 6.
Electric-cord retainer. G. Potstada. No. 1,418,462; June 6.
Electric-current controller. E. Naether. No. 1,418,726; June 6.
Electric furnace. F. W. Sperr, Jr., and H. J. Rose. No. 1,418,984; June 6.
Electric heater. W. W. Hale. No. 1,418,917; June 6.
Electric heater. F. G. Van Dyke. No. 1,418,496; June 6.
Electric machine, Dynamo-. A. H. Neuland. No. 1,418,390; June 6.
Electric machine, Dynamo-. R. B. Williamson. Nos. 1,418,856–7; June 6.
Electric machinery, Dynamo-. F. Creedy. No. 1,418,779; June 6
Electrical conduits, etc., Connector for. G. C. Thomas, Jr. No. 1,418,990; June 6.
Electrical connecting device. G. C. Thomas, Jr. No. 1,418,989; June 6.
Electrical connector. J. Raus. No. 1,418,468; June 6.
Electrical resistance. W. W. Coblentz. No. 1,418,362; June 6.
Electrical units, Adjustable support for testing. G. A. Klemmer. No. 1,418,655; June 6.
Electrically-controlled heater. C. E. Patterson. No. 1,418,671; June 6.
Electromagnetic wave bath. W. S. Benson. No. 1,418,903; June 6.
Elevator. A. H. Thomas. No. 1,419,115; June 6.
Elevators, Electric signal apparatus for. R. A. Newe. No. 1,418,322; June 6.
Endless carrier. H. M. Johnston. No. 1,418,577; June 6.
Engine: *See*—
Double-acting, internal-combustion engine.
two-cycle internal-combustion engine.
Piston engine, Two or multi cylinder internal-combustion engine.
Internal-combustion engine.
Engine, Double-acting, two-cycle, internal-combustion. H. R. Setz. No. 1,418,838; June 6.
Engines, Cam-shaft mounting for internal-combustion. J. F. Buckingham. No. 1,418,282; June 6.
Engines, Circulating system for internal-combustion. C. L. Rayfield. No. 1,418,397; June 6.
Engines, Liquid-fuel-feed system for gas. F. W. Springer. No. 1,418,489; June 6.
Engines, Magneto-electric machine for internal-combustion. C. C. Puckette. No. 1,419,076; June 6.
Engines, Oil gauge for internal-combustion. A. Brunner. No. 1,419,012; June 6.
Engines, Poppet-valve mechanism for internal-combustion. F. D. Shepherd. No. 1,418,479; June 6.
Engines, Timing device for hydrocarbon. G. and C. H. Warrington. No. 1,418,996; June 6.
Envelope. H. Clare. No. 1,418,620; June 6.
Evaporator. H. W. Paulus. No. 1,418,878; June 6.
Explosive and preparing the same, High. T. L. Davis. No. 1,419,027; June 6.
Extractor: *See*—
Oil and like extractor.
Eyeglass mounting. H. R. Gettle and C. S. Scott. No. 1,419,040; June 6.
Farm gate. J. F. Schweiger. No. 1,418,332; June 6.
Farm machinery. J. Sharp. No. 1,418,981; June 6.
Fastener, Separable. J. F. Becker. No. 1,419,104; June 6.
Fastening element. C. Collins. No. 1,418,699; June 6.
Faucet, Self-closing. J. McNeil. No. 1,418,664; June 6.
Feeding device. W. L. Coultas, Jr. No. 1,419,025; June 6.
Fertilizer, Conditioning. C. A. Butt. No. 1,418,618; June 6.
Fiber, Machine for cleaning or hackling. J. B. Stenger, E. McCaffray, and C. E. Oyler. No. 1,418,493; June 6.
File, Rasp. A. Rodow. No. 1,418,974; June 6.
Film-cleaning device. R. A. Riesterer. No. 1,418,830; June 6.
Filter. W. E. Gallagher. No. 1,418,785; June 6
Filtration apparatus. M. B. Tark. No. 1,418,687; June 6.
Fire-fighting apparatus. J. D. Wolf. No. 1,418,505; June 6.
Firearm. G. H. Ball. No. 1,418,862; June 6.
Fish holder. H. Matthews and R. J. Seator. No. 1,418,595; June 6.
Fishing-line float. A. P. Lower. No. 1,418,944; June 6.
Floor construction. C. W. Stevens. No. 1,418,742; June 6.
Floor-planing machine. T. J. Power. No. 1,418,328; June 6.
Floral hanger. J. C. James. No. 1,418,801; June 6.
Flower, Artificial. J. E. Stevens. No. 1,418,846; June 6.
Fly wheel, Resilient. A. E. Schein. No. 1,418,330; June 6.
Flying machines, Towing connection for. A. H. G. Fokker. No. 1,418,783; June 6.
Food machine. J. and H. Trust. No. 1,418,749; June 6.
Fractional condensation. J. F. W. Schulze. No. 1,418,885; June 6.
Frame: *See*—
Baby-net frame.
Grate frame.
Framing apparatus. C. Horton. No. 1,418,570; June 6.
Friction composition and making same. W. Achtmeyer. No. 1,418,607; June 6.
Fruit and vegetable cutting machine. E. R. Jagenburg. No. 1,418,443; June 6.
Fruit picker. S. A. Mickels and A. Newman. No. 1,418,599; June 6.
Fuel burner, Gaseous. A. C. Ionides, Jr. No. 1,419,054; June 6.
Fuel-feed system. F. E. Edwards. No. 1,418,548; June 6.
Fuel injector. S. A. Hasbrouck. No. 1,418,566; June 6.
Fulcrum, Reversible. A. H. Peycke. No. 1,418,734; June 6.
Furnace: *See*—
Electric furnace.
Hot-air furnace.
Furnace. W. K. Booth. No. 1,418,773; June 6.
Furnace. A. A. Bruder. No. 1,419,011; June 6.
Furnace and method, Heat-treating. C. J. Kirk. No. 1,418,446; June 6.
Furnace, Electric. H. G. Weidenthal. (Reissue.) No. 15,378; June 6.
Furnace, Hot-air. D. A. Brunett. (Reissue.) No. 15,372; June 6.
Furnaces, Air-inlet-control means for. W. G. Carrico. No. 1,418,776; June 6.
Furnaces, Deflecting damper for pipeless. J. A. Tarte. No. 1,418,988; June 6.
Fuse. W. J. Hawkins. No. 1,418,710; June 6.
Fuse, Electrical. P. J. Smith. No. 1,419,114; June 6.
Game. C. M. Philo and F. O. Bowers. No. 1,419,074; June 6.
Game apparatus. F. T. Wakefield. No. 1,418,409; June 6.
Garage building. T. Z. Humphries. No. 1,418,714; June 6.
Garment. J. J. Olson. No. 1,418,965; June 6.
Garment, Protective. A. C. Brown. No. 1,418,526; June 6.
Gate: *See*
Farm gate.
Portable gate.
Gas generator for oil burners. N. J. Verret. No. 1,418,407; June 6.
Gas-producing apparatus, Retort for. S. F. Sworski and F. F. Ratajczak. No. 1,418,745; June 6.
Gasoline engines, Fuel mixer for. L. R. Mabee. No. 1,418,877; June 6.
Gasoline from casing-head gas, Apparatus for recovery of. W. R. McGinnis. No. 1,418,876; June 6.
Gauge. C. C. Allen. No. 1,419,004; June 6.
Gearing. A. H. Leipert. No. 1,418,447; June 6.
Gearing. W. S. Pierce, Jr. No. 1,418,461; June 6.
Gearing, Transmission. G. W. Stone. No. 1,418,338; June 6.
Generator: *See*—
Oscillation generator.
Gill boxes, Cam-operating mechanism for. C. C. Hedrick. No. 1,418,568; June 6.
Glasses, Machine for cutting noncircular. A. Steinle. No. 1,418,492; June 6.
Gluing sheets edge to edge, Method of and apparatus for. G. R. Meyercord. No. 1,418,597; June 6.
Golf, Device for use in playing. V. S. Flood. No. 1,418,637; June 6.
Grate frame. E. B. Smith. No. 1,418,483; June 6.
Grave closure, Automatic. C. J. Jansky. No. 1,418,716; June 6.
Grid resistances, Manufacture of. L. Satchwell. No. 1,418,834; June 6.
Grinder. O. H. Feucht. No. 1,418,433; June 6.
Grinder, Feed. M. F. Williams. No. 1,419,089; June 6.
Grinder, Fine. H. M. Plaisted. No. 1,418,735; June 6.
Ground-working implements, Spring-tooth for. J. J. Kovar. No. 1,418,808; June 6.
Guns, Projectile for line-throwing. G. Norman. No. 1,418,963; June 6.
Gyrocompasses, Repeater for. S. G. Brown. No. 1,419,010; June 6.
Hair-waving device. A. Diaz. No. 1,418,291; June 6.
Hairpin. W. A. P. Cathcart. No. 1,419,017; June 6.
Handle: *See*—
Tool handle.
Hanger: *See*—
Door hanger.
Floral hanger.
Harrow, Rotary. F. Kirschke. No. 1,418,933, June 6.
Harvesters, Trailer hitch for. W. E. Cook. No. 1,418,700; June 6.

Harvesting machine, Rice. G. I. Dill. No. 1,418,542; June 6.
Hat-rounding machine, Soft-. F. C. Craw. No. 1,418,288; June 6.
Hay loader. A. Wendel. No. 1,418,997; June 6.
Hayrack. K. and G. Bratteig. No. 1,418,774; June 6.
Headlamp, Automatic automobile. J. D. N. Simpson. 1,418,982; June 6.
Headlight. P. V. Mertzinger. No. 1,418,319; June 6.
Headlights, Tilting mechanism for automobile. C. P. Woodford. No. 1,418,769; June 6.
Heat-storing and water-evaporating plant. H. Pfenninger. No. 1,418,460; June 6.
Heater: *See*—
Combination electric and gas heater.
Electrically-controlled heater.
Electric heater.
Water heater.
Heater. L. F. Clausing. No. 1,418,361; June 6.
Heater for topping stills, Oil. J. E. Bell. No. 1,418,272; June 6.
Heating apparatus. J. Harrington. No. 1,418,871; June 6.
Heating-bar terminal. G. Egly. No. 1,418,633; June 6.
Heating system. W. H. Shoonmaker. No. 1418,835; June 6.
Heating system, Automatic gas-burning. N. B. Wales. No. 1,419,116; June 6.
Heating system, Hot-water. A. R. M. and O. Lincke. No. 1,418,583; June 6.
Heel lining for repairing shoes. H. F. Weston. No. 1,418,855; June 6.
Hinge. R. L. Hall. No. 1,418,919; June 6.
Hook: *See*—
Anchor hook.
Hosiery and making the same, Fashioned. G. P. Bosworth. No. 1,418,617; June 6.
Hot mills, Plate lifting mechanism for. T. McCabe. No. 1,418,815; June 6.
Hull construction, Sectional. F. S. and F. W. Crossley. No. 1,418,629; June 6.
Huskers and shredders, Snapping rolls for. B. R. Benjamin and G. M. Merwin. No. 1,418,424; June 6.
Hydrocarbon engine. C. J. Kierum. No. 1,418,307; June 6.
Hydrocarbon material, Making unsaturated. A. A. Wells. No. 1,418,414; June 6.
Hydrocarbon motor. J. G. Vincent. No. 1,418,408; June 6.
Hydrocarbons and the like, Manufacture of light. W. F. Rittman. No. 1,419,121; June 6.
Hydrocarbons, Treating. W. F. Rittman. No. 1,419,125; June 6.
Hydrocarbons, Treatment of. W. F. Rittman. No. 1,419,122; June 6
Ice-cream freezers and other appliances, Power unit for driving. C. U. Norcross. No. 1,418,962; June 6.
Icing machine. P. R. Janney. No. 1,418,715; June 6.
Ignition systems, Distributor for. P. N. Scott. No. 1,418,836; June 6.
Index. J. H. Rand. Nos. 1,418,466–7; June 6.
Index book for filing systems. C. F. McBee. No. 1,418,315; June 6.
Indicator: *See*—
Automobile direction indicator.
Inflation mechanism. E. L. Fuller. No. 1,419,038; June 6.
Insecticides, Making arsenate. W. H. Swenarton. No. 1,418,848; June 6.
Insulating material and making same. R. E. Ottman No. 1,418,730; June 6.
Insulation of hollow cables and product thereof, Filling the. H. W. Fisher and R. W. Atkinson. No. 1,418,369; June 6.
Internal-combustion engine. L. Atwood. No. 1,418,351; June 6.
Internal-combustion engine. W. E. Laird. No. 1,418,875; June 6.
Internal-combustion engine. G. H. Nobbs. No. 1,418,668; June 6.
Internal-combustion engine, Two or multi cylinder. A. O. L. Wennerby. No. 1,418,415; June 6.
Interrupter mechanism. W. H. Richter. No. 1,418,881; June 6.
Jack: *See*—
Lifting jack.
Jack. W. C. Kirk, Sr. No. 1,418,654; June 6.
Jar-cap former. L. F. Kulp. No. 1,418,939; June 6.
Joint: *See*—
Railway rail joint.
Universal joint.
Key-locking device. W. A. Holquist. No. 1,418,872; June 6.
Key-ring holder. P. J. Seferlis. No. 1,418,979; June 6.
Kiln: *See*—
Tunnel kiln.
Knitting device. R. J. Petermann. No. 1,418,967; June 6.
Knitting-machine needle. E. M. Witherell. No. 1,418,345; June 6.
Labeling mechanism. J. A. Olson and J. E. Williamson. No. 1,418,455; June 6.
Lace-braiding machine. E. Türck and E. Bösebeck. No. 1,418,521; June 6.
Laminated fiber product and making same. J. M. Taylor. No. 1,418,891; June 6.
Lamp. E. A. Kuen. No. 1,419,062; June 6.
Lamp. G. H. Rolfes. No. 1,418,832; June 6.
Lamp, Signal. A. C. Blades. No. 1,418,615; June 6.
Lampblack preparation. W. K. Lewis. No. 1,418,811; June 6.
Lapping machine. J. Y. Fields. No. 1,418,552; June 6.
Lawn sprinkler. A. Williams. No. 1,418,763; June 6.
Lathe tool holder. P. V. Townsend. No. 1,418,992; June 6.
Leucitic rocks for the purpose of rendering potassium compounds available, Treatment of. G. A. Blanc and F. Jourdan. No. 1,418,356; June 6.
Level, Mechanic's. J. F. Dodge. No. 1,418,544; June 6.
License-number plate and tail light, Illuminated. L. Ohnstein. No. 1,418,454; June 6.
Lifting jack. L. T. Johnson. No. 1,418,651; June 6.
Light: *See*—
Vault light.
Lighting fixture. E. F. Guth. No. 1,418,302; June 6.
Line-throwing apparatus. G. Norman. No. 1,418,964; June 6.
Link and drum, Jacquard. G. C. L. Tisch. No. 1,419,084; June 6.
Liquids, Automatic register for. E. and C. E. Sudler. No. 1,418,495; June 6.
Lock: *See*—
Binder lock.
Combination lock.
Permutation lock.
Presser-foot lock.
Pulley key lock.
Sash lock.
Steering-system lock.
Vehicle-door lock.
Locking and unlocking mechanism. D. M. Alexander. No. 1,419,095; June 6.
Locking device. A. Houston and H. P. Stephenson. No. 1,418,571; June 6.
Locking device. J. D. Karle. No. 1,418,379; June 6.
Locomotive, Electric. L. Schön. No. 1,418,977; June 6.
Looms, Feeler mechanism for. J. Coldwell. No. 1,418,536; June 6.
Looms, Feeler mechanism for. A. E. Rhoades. No. 1,418,471; June 6.
Looms, Feeler mechanism for. I. Snow. (Reissue.) Nos. 15,375–6; June 6.
Looms, Filling clamping and parting mechanism for. A. E. Rhoades. No. 1,418,472; June 6.
Looms, Operating mechanism for power-driven. A. Honegger. No. 1,418,646; June 6.
Looms, Warp stop motion for. E. S. Stimpson. No. 1,418,494; June 6.
Looms, Woven-in knife for pile-fabric. T. Bachofen. No. 1,418,512; June 6.
Lubricator-feed-converting means. A. W. Edeborg. No. 1,418,867; June 6.
Lug-strap support. R. T. Powers. No. 1,418,396; June 6.
Luggage carrier. J. M. Born. No. 1,418,426; June 6.
Luminous materials, Device for measuring and feeding. R. W. Erdle. No. 1,418,292; June 6.
Mail sack. E. M. Smith. No. 1,418,403; June 6.
Manifold. A. A. Bailey. No. 1,418,270; June 6.
Manipulator. L. Jones. No. 1,418,932; June 6.
Margarine compounds and other substances, Apparatus for making. H. Forgen and G. W. Wadsworth. No. 1,418,257; June 6.
Mat and luggage carrier, Combined. F. A. Ruff. No. 1,418,676; June 6.
Match plate, Molder's. J. J. Evans. No. 1,418,703; June 6.
Mattress. S. Weinshenk. No. 1,418,501; June 6.
Mattress-roll-forming machine. J. W. Droll. (Reissue.) No. 15,373; June 6.
Measuring instruments, Assembling electrical. J. L. Axen. No. 1,419,099; June 6.
Measuring instrument, Electrical. H. L. Decker. No. 1,418,367; June 6.
Metal article, Protected. J. H. Young. Nos. 1,418,347–9; June 6.
Metal articles, Apparatus for polishing. O. W. Sadler, Jr. No. 1,418,677; June 6.
Metal-bending machine. W. S. Mason. No. 1,418,935; June 6.
Metal boxes with vestas, Machine for filling rectangular. A. F. Ney. No. 1,418,451; June 6.
Metal coating and apparatus therefor. E. L. Watrous. No. 1,418,412; June 6.
Metal-cutting-machine tool. G. C. Neth. No. 1,418,727; June 6.
Metal-supplying device. H. A. W. Wood. No. 1,418,418; June 6.
Metal work, Rotary cutting apparatus for. A. T. Perinan. No. 1,418,459; June 6.
Meter: *See*—
Altitude meter.
Volt-ampere meter.
Microscope with variable enlargement and with fine adjustment, Extensible pocket. C. Hensoldt. No. 1,418,645; June 6.
Milk cooler. L. G. Merkle. No. 1,418,957; June 6.
Milling machine. W. C. Sproul. No. 1,418,490; June 6.
Mixing machine. R. H. Gerard. Nos. 1,418,641–2; June 6.
Mold: *See*—
Curved-block mold.
Rotary casting-machine mold.
Mold-opening device. W. Finn. No. 1,418,635; June 6.
Mold support. W. Walsh, D. H. and A. Miller. No. 1,419,086; June 6.

Mono and di-β-oxyethyl-amino-benzoic esters, Manufacture of new. J. Altwegg and J. Laudrivon. No. 1,418,900; June 6.
Motor: *See*
Hydrocarbon motor.
Mowing-machine swather. J. R. Hinton. No. 1,419,051; June 6.
Net frame, Baby. B. E. Akers. No. 1,418,608; June 6.
Nonskid chain. J. Iverson. No. 1,418,873; June 6.
Nonskid mud and snow device. R. E. Sharp. No. 1,418,839; June 6.
Nut-shelling apparatus. H. L. Smith and H. L. Smith, Jr. No. 1,418,840; June 6.
Oil and like extractor. K. F. Wilhelm. No. 1,418,503; June 6.
Oil burner. W. A. Mays. No. 1,419,070; June 6.
Oil can. C. S. Johnston. No. 1,418,576; June 6.
Oil in gas making, Using heavy. O. B. Evans and H. G. Terzian. No. 1,418,782; June 6.
Oil separator. J. C. Pool. No. 1,418,970; June 6.
Oil sludges, Separation of petroleum-. S. H. Diggs. No. 1,418,781; June 6.
Oils and fats, Neutralization of. E. R. Bolton and E. J. Lush. No. 1,419,109; June 6.
Oils, Process of and apparatus for cracking. G. L. Hoxie. No. 1,418,713; June 6.
Oiler for chains, Automatic. C. R. Weiss and C. B. Morrish. No. 1,418,892; June 6.
Opal glass, Composition for. A. L. Duval d'Adrian. No. 1,419,032; June 6.
Opera chair. M. Hardman. No. 1,418,709; June 6.
Ore concentration. L. Bailey. No. 1,418,514; June 6.
Ores, Apparatus for grinding, classifying, and decanting ores. J. R. Broadley. No. 1,418,523; June 6.
Orthopedic device or apparatus. J. E. Cameron. No. 1,418,283; June 6.
Oscillation generator. E. O. Scriven. No. 1,418,739; June 6.
Oven door and doorway, Drying. A. Maehler. No. 1,418,594; June 6.
Overstitch mechanism. J. P. Weis. No. 1,419,088; June 6.
Oxidizing olefines, etc. C. Ellis. No. 1,418,368; June 6.
Oxyaldehyde, Manufacturer of aromatic. F. Bidaud. No. 1,418,904; June 6.
Package tie. J. L. Kolbe. No. 1,418,938; June 6.
Package tie. G. W. Stout. No. 1,418,743; June 6.
Packaging apparatus. W. V. Derby. No. 1,418,631; June 6.
Packing ring. C. Latta. No. 1,418,582; June 6.
Pad: *See*—
Recoil pad.
Painting-booth apparatus. J. A. Paasche. No. 1,418,731; June 6.
Painting mixture. V. Williamson. No. 1,418,416; June 6.
Pantograph, Rail. R. H. Bennett. No. 1,418,614; June 6.
Paper clip. F. P. Holt. No. 1,418,306; June 6.
Paper holder and printer, Combined roll-. J. I. Haase. No. 1,418,562; June 6.
Paper machine. E. B. Wright and W. W. Weaver. No. 1,419,002; June 6.
Paper, Printing and punching manifolding. J. Q. Sherman. No. 1,418,481; June 6.
Paper-slotting machines, Attachment for. E. G. Staude. No. 1,418,844; June 6.
Pedal. G. F. Long. No. 1,418,313; June 6.
Pen, Fountain. A. O. Dahlberg. No. 1,419,026; June 6.
Pens, Blotter attachment for fountain. Z. J. Briconnier. No. 1,418,696; June 6.
Percolator. O. Tollagsen. No. 1,418,850; June 6.
Permutation lock. S. W. Craddock. No. 1,418,778; June 6.
Petroleum, Apparatus for treating. L. Clark. No. 1,418,621; June 6.
Petroleum vapor, Apparatus for treating. D. W. Hoge. No. 1,418,375; June 6
Phenolic condensation product, Making a. D. S. Kendall. No. 1,418,718; June 6.
Phonograph needle and holder structure. M. W. Severance. No. 1,418,478; June 6.
Phonograph, Repeating. J. H. Ling. No. 1,418,584; June 6.
Photographic enlarger. L. T. Thurber. No. 1,418,690; June 6.
Photographic film, Antistatic. A. F. Sulzer. No. 1,418,405; June 6.
Photographic measuring device. G. Moe. No. 1,418,602; June 6.
Picker: *See*—
Fruit picker.
Pie cutter. A. E. Fogelquist. No. 1,418,868; June 6.
Pipe. M. Thenis. No. 1,418,746; June 6.
Pipe clamp. F. I. Johnson. No. 1,418,650; June 6.
Pipe spear. C. L. Crutcher. No. 1,418,538; June 6.
Pipe wrench, Automatic. C. C. McCoy. No. 1,418,816; June 6.
Piston and piston ring. H. B. Johnston. No. 1,418,802; June 6.
Piston and piston ring. H. B. Johnston. No. 1,418,931; June 6.
Piston, Engine. C. Y. Knight. No. 1,418,719; June 6.
Piston packing. A. F. Hall. No. 1,418,918; June 6.
Planers, Cutter for shale. J. M. Powell. No. 1,418,463; June 6.
Plant roots, Device for controlling the growth of. G. B. Southard. No. 1,418,841; June 6.
Plastic composition. K. L. Binkley. No. 1,418,905; June 6.
Plastic composition. J. J. Lemon. No. 1,418,810; June 6.
Pliers. E. M. Loftus. No. 1,418,312; June 6.
Pliers, Chain. R. I. Shibiya. No. 1,419,081; June 6.
Plow attachment. J. B. Wallace. No. 1,418,410; June 6.
Plow, Under- ree. T. J. Barrow. No. 1,419,102; June 6.
Polishing machine. E. N. Maull. No. 1,418,666; June 6.
Portable gate. H. A. Burgess. No. 1,419,013; June 6.
Post preserver. J. E. Bitting. No. 1,419,108; June 6.
Potato cutter. O. E. Floberg. No. 1,419,036; June 6.
Powder container. S. S. Booty. No. 1,418,520; June 6.
Power from the surf, Method of and apparatus for obtaining. W. S. Scott. No. 1,418,680; June 6.
Power presses, Guard for. J. E. Phillips. No. 1,418,327; June 6.
Power transmission. T. C. Brandon. No. 1,418,517; June 6.
Preserving food, Apparatus for. E. M. Frankel and K. G. Falk. No. 1,418,638; June 6.
Preserving perishable substances, Apparatus and method for. H. B. Cox. No. 1,418,777; June 6.
Press: *See*
Round-bale cotton press.
Presser-foot lock. F. E. Valois. No. 1,418,750; June 6.
Propeller device, Adjustable. W. C. Russell. No. 1,418,399; June 6.
Propeller, Reversible. D. Cockburn and E. McDonald. No. 1,418,622; June 6.
Propeller, Screw. G. H. Thompson and I. Currie. No. 1,418,991; June 6.
Protectively treating materials. A. Arent. No. 1,418,610; June 6.
Protectively treating wood and the like. A. Arent. No. 1,418,609; June 6.
Pulley key lock. H. W. Olsen. No. 1,418,728; June 6.
Pulp material, Preparing fibrous. C. and J. Bache-Wiig. No. 1,418,353; June 6.
Pump, Centrifugal. W. M. White. No. 1,418,344; June 6.
Pump for delivering motor fuel and the like. P. Fisch. No. 1,418,293; June 6.
Pump for inflating vehicle tires. K. H. Schmidt. No. 1,418,884; June 6.
Pump, Hydraulic. R. E. Pelterie. No. 1,418,672; June 6.
Pump or compressor, Rotary. G. H. Stallman. No. 1,418,741; June 6.
Pump, Variable-stroke hydraulic. C. L. Boisset. No. 1,418,616; June 6.
Pump with ejector, Rotary. G. Handley. No. 1,418,921; June 6.
Pumps, Controlling apparatus for piston. F. Martin. Nos. 1,418,951–3; June 6.
Punch. H. Rosenberg. No. 1,418,474; June 6.
Punch presses, Safety attachment for. W. A. Brower. No. 1,418,525; June 6.
Rack: *See*—
Display rack.
Radiant energy, System for control of bodies by. J. H. Hammond, Jr. Nos. 1,418,788-9; June 6.
Radiant energy, System for control of moving bodies by. J. H. Hammond, Jr. Nos. 1,418,791–2; June 6.
Radiating system, Portable. A. A. Oswald. No. 1,418,729; June 6.
Radiator core. M. Emmer and W. Nathanson. No. 1,419,111; June 6.
Radiodynamic control of gyroscopes. J. H. Hammond, Jr. No. 1,418,790; June 6.
Radiodynamic torch-launching mechanism. J. H. Hammond, Jr. No. 1,418,870; June 6.
Rail-holding plate. J. Handen. No. 1,419,046; June 6.
Rail-securing instrumentality. P. J. Conroy. No. 1,418,286; June 6.
Rail splicer. M. Grisak. No. 1,418,915; June 6.
Rails, Process of and apparatus for tempering steel. H. A. Stock. No. 1,418,985; June 6.
Railway-crossing signal. L. A. Lawhead. No. 1,418,660; June 6.
Railway-crossing signal mechanism. D. R. Rupert. No. 1,418,475; June 6.
Railway crossings, Bridging device for. G. J. Giannacopoulos. No. 1,418,559; June 6.
Railway rail joint. J. A. Hyle and G. W. Whiteman. No. 1,418,930; June 6.
Railway ties and applying the same, Coating for. G. H. Hardman. No. 1,418,708; June 6.
Railway tracks, Curve guardrail fixture for. T. Maney. No. 1,418,950; June 6.
Railway-traffic-controlling system. R. A. McCann. No. 1,418,663; June 6.
Railways, Door opener for. J. Szczurek. No. 1,418,406; June 6.
Rake. J. A. Clark. No. 1,419,022; June 6.
Range-boiler stand. A. Scheid. No. 1,418,883; June 6.
Razor-blade holder. E. Betz. No. 1,418,694; June 6.
Razor-blade holder, Safety-. E. Bach and J. Stuart. No. 1,418,352; June 6.
Receptacle. F. W. Martin. No. 1,418,954; June 6.
Receptacle cover. A. J. Wallace. No. 1,418,498; June 6.
Receptacles, Making reenforced. M. R. Harrison. No. 1,419,048; June 6.
Reciprocating mechanism, Crankless. A. G. M. Michel. No. 1,418,598; June 6.

Recoil pad. J. R. Caldwell. No. 1,418,532; June 6.
Record ejector. H. Folkes. No. 1,418,555; June 6.
Recording instrument. D. T. May. No. 1,418,725; June 6.
Rectifier system. A. C. Reid. No. 1,418,398; June 6.
Reeling device. L. N. Hampton. No. 1,418,706; June 6.
Reflector. A. G. France. No. 1,418,556; June 6.
Refractory material and making same. C. A. French. No. 1,418,372; June 6.
Refractory material and making same. R. W. Hull. No. 1,418,648; June 6.
Refrigerating apparatus. F. W. Andrews. No. 1,419,097; June 6.
Refrigerating apparatus. F. H. Kolbe. No. 1,418,806; June 6.
Refrigerating apparatus. A. B. MacKay. No. 1,418,665; June 6.
Refrigerating apparatus, Control for. E. B. Spalt and F. R. Meginniss. No. 1,418,488; June 6.
Register. C. H. Woods and A. Ruebsamen. No. 1,418,770; June 6.
Relay. F. R. Parker. (Reissue.) No. 15,374; June 6.
Repository. W. O. Berkeley. No. 1,419,107; June 6.
Resilient wheel. E. McConville. No. 1,418,723; June 6.
Riffle board. J. Horn. No. 1,419,052; June 6.
Ring: *See*—
Earring.
Packing ring.
Road scraper. O. O. Price. No. 1,418,465; June 6.
Rock drill. W. A. Smith. No. 1,418,333; June 6.
Rod adjustment, Longitudinal. T. J. Gorman. No. 1,418,298; June 6.
Roll-forming machine. C. H. Norton. No. 1,419,073; June 6.
Roofing. C. B. Jaynes. No. 1,418,377; June 6.
Roofing, Ornamental. F. C. Overbury. No. 1,418,456; June 6.
Rope grip. A. Bauer. No. 1,418,902; June 6.
Roundabout. C. E. Brown. No. 1,418,775; June 6.
Rubber propeller, Reenforced. H. T. Kraft. No. 1,419,061; June 6.
Rubber, Treatment of. W. A. Beatty. No. 1,418,271; June 6.
Rubber, Vulcanizing. R. B. Naylor. No. 1,418,825; June 6.
Rule, Measuring. G. W. Bowen. No. 1,418,358; June 6.
Safety appliance. R. E. Langmack. No. 1,418,720; June 6.
Safety device for stripped threads, Gear-like. D. C. Klausmeyer. No. 1,419,058; June 6.
Samples, Folder for cloth. R. A. Howard. No. 1,419,053; June 6.
Sand and gravel screen. H. S. Earle. No. 1,418,545; June 6.
Sanitary trap. N. C. Leonard. No. 1,418,941; June 6.
Sash lock. G. W. Deeds. No. 1,418,290; June 6.
Sash-operating mechanism. J. A. Peterman. No. 1,418,732; June 6.
Saw gummer. R. F. Barry. No. 1,419,103; June 6.
Saw, Portable jig. S. H. Hawley. No. 1,418,644; June 6.
Saw, Portable power. J. H. Diers and O. Arneson. No. 1,419,028; June 6.
Scraper. C. B. Roberts. No. 1,418,973; June 6.
Scrapers, Control attachment for. G. P. Haynes. No. 1,418,567; June 6.
Screen: *See*—
Adjustable screen.
Sand and gravel screen.
Screening apparatus. W. S. Acken. No. 1,418,899; June 6.
Searchlight apparatus. H. O. Fletcher. No. 1,418,553; June 6.
Searchlight-positioning means. M. L. Patterson. No. 1,418,325; June 6.
Seat: *See*—
Spring seat.
Seat cover. J. F. Kutschmar. No. 1,418,940; June 6.
Separator: *See*—
Oil separator.
Separator. A. J. Dennig. No. 1,418,866; June 6.
Sewing machine. W. H. Stedman. No. 1,418,682; June 6.
Shaffer-strip-guide device. A. D. Kilgore. No. 1,418,653; June 6.
Shaping and ironing tool. F. E. Kern. No. 1,418,381; June 6.
Sharpener, Pencil. E. R. Wolcott. No. 1,418,858; June 6.
Sheet-metal structure, Built-up. H. B. Layman. No. 1,418,309; June 6.
Sheller: *See*
Bean sheller.
Shelving. J. B. O'Connor. No. 1,418,324; June 6.
Shock absorber. A. R. Arnot. No. 1,419,098; June 6.
Shock absorber. A. C. Hopkins. No. 1,418,712; June 6.
Shock absorber. J. T. Smith, S. S. Wilkins, and J. M. Manning. No. 1,418,484; June 6.
Shoe heel. A. Carlozzo. No. 1,418,428; June 6.
Shoe last. E. A. Eastman. No. 1,418,546; June 6.
Shoe machine. F. A. Reardon. No. 1,418,736; June 6.
Shoe plate. M. M. West. No. 1,418,894; June 6.
Shoe-shining machine. L. Chambers. No. 1,419,018; June 6.
Shoe-sole die. A. Madson. No. 1,418,317; June 6.
Shoes, Method for use in the manufacture of. J. Brunell. No. 1,418,359; June 6.
Shoveling machine dipper. A. K. Mitchell. No. 1,418,321; June 6.
Shuttle mechanism. F. E. Valois. No. 1,418,752; June 6.
Signal. A. E. Wittig. No. 1,418,346; June 6.
Signature-conveyer support. M. Christensen. No. 1,418,865; June 6.
Sirups and molasses, Preservation in storage of. W. L. Owen. No. 1,418,457; June 6.
Sled, Coaster. R. A. Mack. No. 1,418,818; June 6.
Sleet cutter. G. S. and O. Moore. No. 1,418,389; June 6.
Slitting casings, Tool for. J. G. Warner. No. 1,418,757; June 6.
Snow disposal. J. A. Steinmetz. No. 1,418,337; June 6.
Snow-disposal device. E. V. Crouse. No. 1,418,630; June 6.
Snubber. F. H. Ream. No. 1,418,828; June 6.
Soaping device. J. Vaudreuil. No. 1,418,497; June 6.
Sole protector. W. H. Betts. No. 1,418,425; June 6.
Soles, Machine for cutting. E. L. Patten. No. 1,418,604; June 6.
Solvents, Recovery of volatile. G. W. Coggeshall and T. M. Rector. No. 1,418,363; June 6.
Sound-producing instruments, Diaphragm for. S. B. Williamson. No. 1,418,998; June 6.
Sound-transmitting means. H. J. Durborow and B. L. Winders. No. 1,418,909; June 6.
Spark gap, Quench rotary. E. F. Bell. No. 1,418,518; June 6.
Spark plug. P. J. Donavan. No. 1,418,632; June 6.
Speed gear, Change-. J. Cotal. No. 1,418,537; June 6.
Spike making machine, Automatic. G. Weber. No. 1,418,500; June 6.
Spirit wheel. W. H. Swallow. No. 1,418,686; June 6.
Splint, Adjustable surgical. H. V. Smith. No. 1,418,486; June 6.
Spooling machine. J. F. Cullen. No. 1,418,365; June 6.
Spring. E. Barnes. No. 1,419,005; June 6.
Spring bracket. A. T. Sturt. No. 1,419,083; June 6.
Spring mounting. C. C. Hudson. No. 1,418,799; June 6.
Spring seat. H. F. Gynn. No. 1,418,561; June 6.
Spring-seat construction. H. O. Reidenbach. No. 1,418,469; June 6.
Spring wheel. W. J. Beisel. (Reissue.) No. 15,371; June 6.
Sprinkler: *See*—
Lawn sprinkler.
Stamp-affixing device. N. Miller. No. 1,418,600; June 6.
Stand: *See*—
Range-boiler stand.
Stapling machine, Multiple. H. B. Walter. No. 1,418,853; June 6.
Starch mixture, Apparatus for handling. D. H. Benjamin. No. 1,418,273; June 6.
Starch mixture, Handling. D. H. Benjamin. No. 1,418,275; June 6.
Starch, Preparing. D. H. Benjamin. No. 1,418,274; June 6.
Starch-preparing apparatus. E. W. Miller. No. 1,418,320; June 6.
Starch products, Making soluble. A. W. H. Lenders and H. F. Bauer. No. 1,418,311; June 6.
Steering-system lock. J. L. Cook. No. 1,419,024; June 6.
Stereotype printing plates and tails from a finishing machine, Device for delivering. H. A. W. Wood. No. 1,418,417; June 6.
Sterilizing apparatus. D. E. Dufresne and W. Adamson. No. 1,419,031; June 6.
Stilt, Adjustable-. R. A. Summers. No. 1,418,685; June 6.
Stirrup, Automatic releasing. P. N. Winkley. No. 1,418,504; June 6.
Stoker, Underfeed. R. S. Riley. No. 1,418,831; June 6.
Stop motion, Warp. A. E. Rhoades. No. 1,419,077; June 6.
Stopper: *See*—
Bottle stopper.
Stove, Heating. L. Damaska. No. 1,418,431; June 6.
Submarine-mine laying, System of. J. H. Hammond, Jr. No. 1,418,797; June 6.
Suit, Play. E. L. Bornstein. No. 1,418,281; June 6.
Supporting device for various articles. E. S. Gardiner. No. 1,418,435; June 6.
Swing, Baby. M. E. Merifield. No. 1,418,318; June 6.
Switch: *See*—
Automatic track switch.
Switch. E. N. Jacobi. No. 1,418,376; June 6.
Switch. R. R. Risk. No. 1,418,674; June 6.
Switch mechanism, Quick-break. B. E. Getchell. No. 1,418,558; June 6.
Tarry device. P. Stoner. No. 1,419,082; June 6.
Telautographs, Motor mechanism for operating. S. Kucharski. No. 1,418,657; June 6.
Teledynamic control. J. H. Hammond, Jr. No. 1,418,796; June 6.
Teledynamic control. J. H. Hammond, Jr. No. 1,418,869; June 6.
Teledynamic control for dirigible bodies, System of. J. H. Hammond, Jr. No. 1,418,793; June 6.
Teledynamic control, System of. J. H. Hammond, Jr. No. 1,418,794; June 6.
Telephone hook switches, Attachment for. H. L. S. Williams. No. 1,418,764; June 6.
Telephone-receiver support. N. F. Mansure. No. 1,418,820; June 6.
Telephones, Apparatus applicable to the receivers of. F. Santos Lamadrid. No. 1,419,063; June 6.
Telescope mount for rifles. W. B. Knoble. No. 1,418,935; June 6.

Telescoping elements. Friction clutch for. J. Schade. No. 1,418,329; June 6.
Tension device. W. B. Harsel and R. B. Day. No. 1,419,049; June 6.
Terrazzo safety tread. W. H. Chapman. No. 1,419,019; June 6.
Thermostat. J. F. Horsham. No. 1,418,928; June 6.
Thermostat, Protected. E. E. Gold. No. 1,418,913; June 6.
Thermostatic pilot-light control. N. B. Wales. No. 1,418,994; June 6.
Thrashing machines, Self-feeder for. W. F. MacGregor and N. R. Krause. No. 1,418,724; June 6.
Thrashing mechanism, Standing grain. G. Schaefer. No. 1,418,476; June 6.
Ticket. C. A. Lick. No. 1,419,066; June 6.
Tickets, Device for the delivery of. C. R. Prosser. No. 1,419,075; June 6.
Tie; *See*—
Package tie.
Time-limit apparatus. J. J. Kane. No. 1,418,803; June 6.
Timer. A. S. Goldstein. No. 1,419,042; June 6.
Timers, Spring brush for. A. Gerosa. No. 1,419,039; June 6.
Tipping hand tool. J. W. Parks. No. 1,418,394; June 6.
Tire carrier. E. W. Seaholm and G. E. Parker. No. 1,419,080; June 6.
Tire casing and supporting means therefor. J. P. Coe. No. 1,418,623; June 6.
Tire chain. S. Goddard. No. 1,418,373; June 6.
Tire-chain fastener. J. Gray. No. 1,419,043; June 6.
Tire-chain fastener. C. L. Knowles. No. 1,419,060; June 6.
Tire-making machine. C. L. Landon. No. 1,419,064; June 6.
Tire, Pneumatic. C. H. Hamilton. No. 1,419,045; June 6.
Tire rack and changer, Combination. F. Booth. No. 1,418,279; June 6.
Tire, Resilient. V. O. Woodruff. No. 1,419,001; June 6.
Tire shaping machine. H. V. Lough. No. 1,418,662; June 6.
Tire stock, Machine for and method of making cord-. J. B. Brennan. No. 1,418,906; June 6.
Tires, Apparatus for making cushion. J. R. Gammeter. No. 1,418,639; June 6.
Tires from molds, Device for removing. R. N. Van Buskirk. No. 1,418,753; June 6.
Tires, Protective armor for pneumatic. C. W. Loudon. No. 1,418,661; June 6.
Tobacco-cutting machine. A. W. Adt. No. 1,419,094; June 6.
Tobacco-pipe cleaner. M. T. Bentley. No. 1,419,106; June 6.
Tool. F. R. Clifton. No. 1,419,023; June 6.
Tool. R. G. Smith. No. 1,418,983; June 6.
Tool. H. W. Stimpson. No. 1,418,847; June 6.
Tool, Combination. L. R. Burnell. No. 1,418,529; June 6.
Tool handle. W. H. Stevens. No. 1,418,683; June 6.
Tool holder. K. Studinka. No. 1,418,987; June 6.
Tool, Rotatable hand. J. R. Ayotte. No. 1,419,100; June 6.
Tools, Trip mechanism for machine. S. Einstein. No. 1,419,117; June 6.
Torch, Welding. J. C. Theberath. No. 1,418,688; June 6.
Torpedoes, Launching mechanism for. J. H. Hammond, Jr. No. 1,418,795; June 6.
Torpedoes, Predirecting system for. A. D. Trenor. No. 1,418,851; June 6.
Towline and fastener. G. W. Moore. No. 1,418,958; June 6.
Toy. J. Holanowski. No. 1,418,936; June 6.
Toy aeroplane. A. Z. Thomas. No. 1,418,849; June 6.
Toy binding machine. P. Alexander, Jr. No. 1,419,096; June 6.
Toy, Flying. G. A. Gillen. No. 1,419,041; June 6.
Toy horse propelled by the rider. T. Cowburn. No. 1,418,626; June 6.
Toy, Sounding. P. C. Schmidt. No. 1,418,401; June 6.
Toy target. C. L. Templeton. No. 1,418,339; June 6.
Toy wagon. B. M. Huff. No. 1,418,647; June 6.
Track switch, Automatic. R. R. Scoggan. No. 1,418,978; June 6.
Traction drive wheels, Mounting for. E. B. McCartney. No. 1,418,948; June 6.
Traction vehicles, Lining for. E. C. Unser. No. 1,419,085; June 6.
Traction wheel. C. A. Psilander and W. M. Henderson. No. 1,418,971; June 6.
Tractor. J. F. M. Patitz. No. 1,419,113; June 6.
Tractor draft rig. W. D. F. Igney. No. 1,419,119; June 6.
Tractor link. W. S. McKee. No. 1,418,316; June 6.
Tractor wheel. W. M. Henderson. No. 1,419,050; June 6.
Tractors, Grouser attachment for. J. W. Livermore. No. 1,418,585; June 6.
Tractors, Line drive for. E. G. Staude. No. 1,418,843; June 6.
Tractors, Power-lift attachment for. E. R. Burtnett. No. 1,419,014; June 6.
Tramway rail having removable tread. F. Adams. No. 1,418,509; June 6.
Translating circuit. J. R. Carson. No. 1,418,285; June 6.
Transmission mechanism. C. L. Kubista and J. J. Kovar. No. 1,418,809; June 6.
Trap; *See*—
Animal trap. Sanitary trap.
Trap. E. E. Mortimer. No. 1,418,603; June 6.
Tray, Ash. C. W. Reasner. No. 1,418,737; June 6.
Trolley wheel. R. C. Kissinger. No. 1,418,579; June 6.
Trolley wheel. F. N. Russell. No. 1,418,833; June 6.
Trough. G. G. Bayne and J. C. Hoehnen. No. 1,418,516; June 6.
Trousers. F. Kalman. No. 1,418,578; June 6.
Truck body. C. L. House. No. 1,418,929; June 6.
Truck for harvesters and binders, Lead. E. Severson. No. 1,418,889; June 6.
Truck hoist. W. G. Mayer. No. 1,418,387; June 6.
Truck, Six-wheel. G. G. Floyd. No. 1,418,294; June 6.
Truck, Six-wheel railway car. J. A. Lamont. No. 1,418,308; June 6.
Trucks, Safety attachment for railway car. C. L. Pittman. No. 1,418,827; June 6.
Trunk, Wardrobe. B. M. Hamlin. No. 1,418,564; June 6.
Tube and rod tapering. L. H. Brinkman. No. 1,418,697; June 6.
Tube-making machine. H. Z. Cobb. No. 1,418,535; June 6.
Tubes, tubular containers, and sheets, Process of and apparatus for tempering metallic. H. A. Stock. No. 1,418,986; June 6.
Tunnel kiln. E. P. Ogden. No. 1,418,669; June 6.
Turbine blower, Compound. E. D. Green. No. 1,418,704; June 6.
Turbine, Internal-combustion. L. C. Josephs, Jr. No. 1,418,444; June 6.
Typewriter support. C. B. Corcoran. No. 1,418,701; June 6.
Typewriters, Manifold attachment for. J. Q. Sherman. No. 1,418,480; June 6.
Typewriters, Ribbon attachment especially adapted for. M. L. Cossitt. No. 1,418,624; June 6.
Typewriting machine. J. H. Barr. No. 1,418,901; June 6.
Typewriting machine. E. B. Hess and L. C. Myers. No. 1,418,440; June 6.
Typewriting machine. A. J. Wood. No. 1,418,506; June 6.
Typographic machine. P. W. Druitt and W. R. Gilpin. No. 1,419,030; June 6.
Universal joint. R. Keck. No. 1,418,380; June 6.
Universal joint. W. H. Thiemer. No. 1,418,689; June 6.
Vacuum container. H. Goldsmith. No. 1,418,914; June 6.
Valve. J. Garlick. No. 1,418,911; June 6.
Valve. W. W. Shorday. No. 1,418,482; June 6.
Valve gear. T. W. Rose. No. 1,418,473; June 6.
Valve grinder. H. A. Wright. No. 1,418,419; June 6.
Valve, Leakproof lower or standing. C. H. Benckenstein. No. 1,418,423; June 6.
Valve, Syringe. H. H. McGee. No. 1,418,592; June 6.
Valves, Attachment for straight-air brake. J. W. Finch and W. A. Talley. No. 1,418,434; June 6.
Vanity case and bouquet holder. S. B. Wertheimer. No. 1,418,760; June 6.
Vault light. W. L. Walker. No. 1,418,341; June 6.
Vehicle bodies, Supporting device for. H. E. Fife. No. 1,418,634; June 6.
Vehicle bumper. J. J. O'Brien. No. 1,418,453; June 6.
Vehicle, Child's. W. H. Herrick. No. 1,418,569; June 6.
Vehicle, Child's occupant-propelled. R. A. Mack. No. 1,418,817; June 6.
Vehicle door curtain. T. L. Cowles. No. 1,418,627; June 6.
Vehicle door lock. L. W. Gates. No. 1,418,786; June 6.
Vehicle driving mechanism. W. B. Lefler. No. 1,418,310; June 6.
Vehicle, Motor. H. D. Church. No. 1,418,360; June 6.
Vehicle protector, Motor-. L. R. Zepka. No. 1,419,093; June 6.
Vehicle-spring lubricator. C. H. Kronewitter. No. 1,418,580; June 6.
Vehicle spring suspension. R. H. Watkins. No. 1,418,758; June 6.
Vehicle wheel. W. S. Gauntt. No. 1,418,557; June 6.
Vehicle wheel. W. C. Kroegher. No. 1,418,656; June 6.
Vehicles, Abstract of title for motor. C. C. Chase. No. 1,419,020; June 6.
Vehicles, Automatic steering device for motor. P. S. Bauer. No. 1,418,693; June 6.
Vehicles, Differential for. J. F. Nisewanger. No. 1,418,452; June 6.
Vehicles, Direction indicator for. J. B. Bushnell. No. 1,418,531; June 6.
Vehicles, Eccentric steering device for motor. M. A. Cameron. No. 1,418,698; June 6.
Vehicles, Impact-actuated control mechanism for. K. O. Schauman. No. 1,418,678; June 6.
Vehicles, Signal for motor-driven. J. A. Beemer. No. 1,419,105; June 6.
Vending machine, Coin-controlled. A. D. Grover. Nos. 1,418,300–1; June 6.
Vending machine, Coin-controlled. B. Jahn. No. 1,419,055; June 6.
Vending receptacle. F. R. Greene. No. 1,418,560; June 6.
Ventilating vehicular tunnels, Method and means for. J. M. Seymour. No. 1,418,980; June 6.
Vise. O. S. Petterson. No. 1,418,733; June 6.
Volt-ampere meter. D. J. Angus. (Reissue.) No. 15,370; June 6.

Wagon, Dump. J. L. Kolbe. No. 1,418,937; June 6.
Wall covering, putty, or the like manufacturing material suitable for. K. Wolf. No. 1,418,896; June 6.
Wall of blocks of wood and similar material. K. Praetorius. No. 1,418,464; June 6.
Washer: *See*—
Automobile washer.
Washing machine. C. F. Lockhart and E. H. Roby. No. 1,418,586; June 6.
Washing-machine driving mechanism. F. W. Carpenter. No. 1,418,429; June 6.
Washing-machine operating mechanism. J. Leader and B. E. Getz. No. 1,418,295; June 6.
Washing-machine pounder. C. F. Lockhart and E. H. Roby. No. 1,418,587; June 6.
Washing machines. F. J. Couch. No. 1,418,625; June 6.
Watch crystals, Tool for grinding. W. M. Sandefur. No. 1,418,975; June 6.
Watch, etc. J. Brun. No. 1,418,427; June 6.
Water Feed mechanism for the chemical treatment of. W. J. Danaho. No. 1,418,289; June 6.
Water heater. W. H. Aldridge. No. 1,418,421; June 6.
Water heater. W. G. Lewis. No. 1,418,812; June 6.
Water-level controller. G. W. Stefson. No. 1,418,845; June 6.
Waterproof covering for hats. A. Barnett and M. I. Steinberg. No. 1,418,354; June 6.
Waterproofing composition. G. H. Havens. No. 1,418,374; June 6.
Well-boring tool, Electric. R. M. McFadden. No. 1,419,068; June 6.
Well-casing spear. R. A. Wilson. No. 1,418,766; June 6.
Wells, Oil saver for oil-producing. J. L. Beard. No. 1,418,612; June 6.
Wheel: *See*-
Resilient wheel.
Spirit wheel.
Spring wheel.
Traction wheel.
Tractor wheel.
Trolley wheel.
Vehicle wheel.
Wheel. C. Schenck and L. Fine. No. 1,418,331; June 6.
Wheel and tire, Combined. J. S. Webster and H. Hunt. No. 1,418,854; June 6.
Wheel for motor and other vehicles, Automatically-operating pneumatic. H. C. Baquie. No. 1,418,515; June 6.
Wheel mounting. H. J. Smith. No. 1,418,404; June 6.
Wheels, Means for locking demountable rims to. H. B. Patten. No. 1,418,458; June 6.
Wheelbarrow, Foldable. C. Vangiesen. No. 1,418,754; June 6.
Windmill. W. A. Wilson. No. 1,419,000; June 6.
Window. J. A. Fentress. No. 1,418,550; June 6.
Window, Curtain. J. P. de Broeck. No. 1,418,539; June 6.
Windshield weather seal. G. E. Holmes and J. M. and A. G. Bostrom. No. 1,418,305; June 6.
Windshields, Supporting frame for. A. Golde. No. 1,418,643; June 6.
Wire-bending machine. S. R. Reynolds. No. 1,418,470; June 6.
Wire-fence attachment. W. M. Story. No. 1,418,684; June 6.
Wire handling machine. L. L., M. W., and L. H. Iverson. No. 1,418,575; June 6.
Wire package binder. S. C. Cary. No. 1,419,110; June 6.
Wire sash-chain-attaching device, Coiled-. J. R. Reyburn. No. 1,418,972; June 6.
Wire tightener and twister. W. H. Mead. No. 1,418,956; June 6.
Work-clamping bench. O. Hodgkinson. No. 1,418,924; June 6.
Work-holding-foot mechanism. J. P. Weis. No. 1,419,087; June 6.
Wrench: *See*
Automatic pipe wrench.
Casing wrench.
Wrench. R. A. Wilson. No. 1,418,768; June 6.
Wringer: *See*—
Clothes wringer.
Xylene and other similar hydrocarbons, Treatment of. W. F. Rittman. No. 1,419,124; June 6.
Yoke, Drawbar. G. C. Murray. No. 1,418,450; June 6.
Zirconium compounds, Production of. L. Burgess. No. 1,418,528; June 6.

ALPHABETICAL LIST OF DESIGNS.

Automobile window handle. F. W. Walker. No. 61,056; June 6.
Candy boat. I. Kaufman. No. 61,043; June 6.
Cap. A. Sloforoff. No. 61,053; June 6.
Display shape of an article of clothing. A. N. Oppenheim. No. 61,051; June 6.
Doll. E. M. Shawe. No. 61,052; June 6.
Electrical receptacle. R. B. Benjamin. No. 61,027; June 6.
Emblem, button, brooch, fob, or similar article. G. R. Brockmann. No. 61,031; June 6.
Emblem, medallion, badge, button, pin, or similar article, Fraternal. L. J. Malone. No. 61,048; June 6.
Grating. W. H. Lown. No. 61,046; June 6.
Handkerchief, napkin, or similar article. J. Harden. Nos. 61,036–9; June 6.
Handle. F. W. Walker. No. 61,057; June 6.
Jar. J. E. Mace. No. 61,047; June 6.
Lens. I. Berkowitz. Nos. 61,028–9; June 6.
Lighting fixture, Globe for. T. E. Dahl. No. 61,034; June 6.
Mattress ticking or similar article of manufacture. E. G. Meyers. No. 61,049; June 6.
Paper, Ornamental. C. H. Havemeyer. No. 61,040; June 6.
Pen, Writing. M. Jones. No. 61,041; June 6.
Pendant. E. Cody. No. 61,032; June 6.
Plate or similar article. C. Klenk. No. 61,044; June 6.
Radiator cap, Ornament for a. S. de Kosenko. No. 61,045; June 6.
Ring. C. J. Dieges. No. 61,035; June 6.
Ring. A. Verber. Nos. 61,054–5; June 6.
Ring, Finger. F. Milhening. No. 61,050; June 6.
Rubber mat. H. Joseph. No. 61,042; June 6.
Tire. H. J. Andrus. No. 61,026; June 6.
Tire. B. Dahl. No. 61,033; June 6.
Tire, Elastic vehicle. A. L. Breitenstein. No. 61,030; June 6.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Anaesthetic, Local. Asensin Company of America. No. 155,602; June 6.
Antiseptic preparations. Lyko Medicine Co. No. 155,754; June 6.
Antiseptics. Buffalo Specialty Co. No. 155,632; June 6.
Apparel, Wearing. S. M. Werber. No. 155,864; June 6.
Apples, Fresh. Equity Growers & Shippers Association. No. 155,681; June 6.
Automobile locks. Johnson Automobile Lock Company. No. 155,895; June 6.
Automobiles. Revere Motor Car Corporation. No. 155,907; June 6.
Automobiles, Electric signal lamps for. F. Hitchcock. No. 155,713; June 6.
Baking powder and soda. Wabash Baking Powder Company. No. 155,856; June 6.
Balm for certain named purposes. A. F. Leonard & Co. No. 155,748; June 6.
Batteries, Dry. National Carbon Company. No. 155,771; June 6.
Batteries, Electric. Magno Storage Battery Co. No. 155,757; June 6.
Batteries, Storage. W. S. Nott Company. No. 155,788; June 6.
Battery and electric lighting plants and switchboards. Worthington Pump and Machinery Corporation. No. 155,874; June 6.
Battery chargers. Westinghouse Electric & Manufacturing Company. No. 155,866; June 6.
Battery solution, Liquid. Energy Electrolyte Co. No. 155,680; June 6.
Battery, storage-battery parts, and battery supplies. Storage. Chain Battery Supply Co. No. 155,638; June 6.
Beds, Concealable. American Automatic Lock and Lift Company. No. 155,594; June 6.
Belt dressing. Marshall Oil Company of Iowa. No. 155,761; June 6.
Belts for supporting outer garments. Marathon Tire & Rubber Company. No. 155,760; June 6.
Bindings, Novelty bias. Bias Narrow Fabric Company. No. 155,621; June 6.
Blouses, shirts, and playsuits, Boys'. Reliance Manufacturing Company. No. 155,807; June 6.
Bluing. Condensed Bluing Company. No. 155,652; June 6.
Bluing. J. R. Council. No. 155,656; June 6.
Braids and shoe laces. Hill and La Cross Company. No. 155,712; June 6.
Brassières, bandeaux, ready-made dress linings, waterproof aprons, baby pants, etc. C. Benedict Mfg. Co. No. 155,678; June 6.
Buckles, Belt. S. Buchsbaum. No. 155,629; June 6.
Buckles, Belt. Marathon Tire & Rubber Company. No. 155,759; June 6.
Cabinets, Filing. Renco Limited. No. 155,808; June 6.
Cabinets, Kitchen. Charles William Stores, Inc. No. 155,870; June 6.
Candies. Nunnally Company. No. 155,789; June 6.
Candy. Euclid Candy Company. No. 155,684; June 6.
Candy. New England Confectionery Company. Nos. 155,773–81; June 6.
Candy. Stephen F. Whitman & Son Inc. No. 155,868; June 6.
Candy, Hard. Candy Products Corporation. No. 155,881; June 6.
Candy suckers. Smith-Kirk Candy Co. No. 155,835; June 6.
Canned fruits and vegetables. Virden Packing Company. No. 155,854; June 6.
Canned sauerkraut. Frank Pure Food Company. Nos. 155,890–1; June 6.
Carbons, Arc-light. National Carbon Company. Nos. 155,903–4; June 6.
Casting lines, Hard-braid. B. F. Gladding & Co. No. 155,893; June 6.
Cement, Roof. Kling-Tight Products Co. No. 155,736; June 6.
Cheese. J. L. Kraft & Bros. Co. No. 155,898; June 6.
Chemical, medicinal, and pharmaceutical preparations, Certain. G. H. Guy. No. 155,699; June 6.
Chemical preparation used as a disinfectant, germicide, deodorant, etc. New Southern Drug Company. No. 155,782; June 6.
Chlorine solution, fly spray, sour-milk-testing solution, bacteriologists' cultures, etc. Dairy Laboratories. No. 155,662; June 6.
Cleaner for automobile windshields, windows, and the like, Liquid. Spring Mfg. Co. No. 155,840; June 6.
Cleaners and parts thereof, Electric vacuum. Electric Vacuum Cleaner Company. No. 155,682; June 6.
Cleaners for metal prior to plating, japanning, galvanizing, and rough cleaning between machine operations. S. D. Benoliel. No. 155,619; June 6.
Cleaning and polishing powder. A. C. Horn Co. No. 155,718; June 6.
Cleaning and polishing preparations used by dentists, Certain. L. D. Caulk Company. No. 155,636; June 6.
Cleaning compound. Klee-Nup Mfg. Co. No. 155,735; June 6.
Cleaning compound for the hands. F. C. Dunlap. No. 155,673; June 6.
Cleaning metal ware, clothing, and gloves. M-P-Co. No. 155,769; June 6.
Cleaning preparations. Shi-Nup Products Company. No. 155,832; June 6.
Cleaning preparations, Certain. N. T. Pool. No. 155,799; June 6.
Cleaning preparations, Certain. John Sexton and Company. No. 155,828; June 6.
Cleansing fluid for silk, wool, etc. H. A. Cassebeer, Inc. No. 155,685; June 6.
Cloth for polishing metals, hard rubber, and glass, Chemically-treated. C. F. Jameson. No. 155,728; June 6.
Clothing, Certain articles of. Cohen, Goldman & Co. No. 155,644; June 6.
Clothing, Certain articles of. William Hollins & Company. No. 155,717; June 6.
Clothing, Certain articles of. J. F. Schweizer-Caillaux. No. 155,823; June 6.
Coal. Wisconsin Steel Company. No. 155,872; June 6.
Coffee. Betterton-Rupert Coffee Co. No. 155,879; June 6.
Coke. Barrett Company. No. 155,609; June 6.
Collars, cuffs, guimpes, vestees, ruffs, etc. G. Sidenberg & Co. No. 155,833; June 6.
Compound for treating dropsy. I. N. Seasure. No. 155,746; June 6.
Conditioner for horses, cattle, etc., General. W. Gamlin. No. 155,691; June 6.
Confection. Russell Stover Company. No. 155,844; June 6.
Construction material, Certain. Midwest Steel & Supply Company. No. 155,764; June 6.
Construction materials, Certain named. Standard Oil Company (Incorporated in New Jersey). Nos. 155,909–10; June 6.
Cosmetic toilet preparation. Lengfeld's Pharmacy. No. 155,747; June 6.
Cream and powder, Face. F. R. Arnold & Co. No. 155,601; June 6.
Cream, Face. Dr. C. H. Berry Chemical Co. No. 155,620; June 6.
Cream, Face massage. L. T. Dickerson. No. 155,667; June 6.
Creams, Face. L. L. Stern. No. 155,843; June 6.
Cutlery, machinery, and tools, Certain. I. Kwilecki's Sons. No. 155,896; June 6.
Dandruff remedy. J. Cangelosi. No. 155,634; June 6.
Dentifrice. W. M. Ruthrauff Company. No. 155,812; June 6.
Disinfectants and deodorants. M. Meyers. No. 155,762; June 6.
Disinfecting and fumigating chemicals. P. A. Brown. No. 155,626; June 6.
Doors, Wooden. Paine Lumber Company. No. 155,793; June 6.
Drainage fittings, Certain. Compound Injector & Specialty Co. No. 155,884; June 6.
Dresses. Shapero, Lewis & Co. No. 155,830; June 6.
Dresses and aprons, Wash and house. Donnelly Garment Company. No. 155,669; June 6.
Dresses, Children's and misses'. L. Borgenich. No. 155,623; June 6.
Dresses, Girls' and misses'. E. Kessler. No. 155,733; June 6.
Dresses, skirts, waists, etc., Women's silk. J. A. Migel, Inc. No. 155,770; June 6.
Dressing for leather. A. Overton. No. 155,791; June 6.
Egg preserver, Water-glass. Rutland Fire Clay Co. No. 155,813; June 6.
Electric signal holders and traffic signal devices. A. R. Fergusson. No. 155,688; June 6.
Electric spot lights. Charles Kaufman & Sons. No. 155,731; June 6.
Electric storage batteries, and storage-battery parts. Compo Battery Company. No. 155,651; June 6.
Electrical apparatus, Certain. Gamewell Fire Alarm Telegraph Company. No. 155,690; June 6.
Electrical apparatus, Certain. Takamine Commercial Corporation. No. 155,846; June 6.
Electrical blowers. American Blower Company. No. 155,595; June 6.
Electrical devices, Certain. Coto-Coil Company. No. 155,655; June 6.
Electrical devices, Certain. Tucker Electrical Construction Company. No. 155,851; June 6.
Electrical equipment, Certain marine. Arnessen Electric Co. No. 155,600; June 6.
Electrical ignition coils and condensers. Security Manufacturing Company. No. 155,826; June 6.

Electrical wires, covered or uncovered, and rail bonds. American Steel & Wire Company of New Jersey. No 155,598; June 6.
Electrical wiring devices, Cover plates for. Bryant Electric Company. No. 155,628; June 6.
Elevator-door closers. Norton Door Closer Co. No. 155,905; June 6.
Embroidery stampings. Voco Sales Co. No. 155,855; June 6.
Emulsion. Zagat Inc. Nos. 155,877–8; June 6.
Epsom and Rochelle salts, bicarbonate of soda, etc. Zagat Inc. No. 155,876; June 6.
Extract of wood for tanning purposes. Ernesto Tornquist & Co., Limitada. No. 155,849; June 6.
Eyewater. W. A. Morgan. No. 155,768; June 6.
Fans for personal use. Ovington Bros. Company. No. 155,792; June 6.
Featherstitch braid and embroidery edging. American Fabrics Company. No. 155,596; June 6.
Fishing line. Ashaway Line & Twine Manufacturing Company. Nos. 155,603–4; June 6.
Flash light and batteries. R. V. G. Company. No. 155,814; June 6.
Foot powder. Hoffman & Peterson. No. 155,714; June 6.
Fruits, Fresh citrus. Bastanchury Ranch Company. No. 155,611; June 6.
Fruits, Fresh citrus. Lake Wales Citrus Growers Association. Nos. 155,744–5; June 6.
Furniture. C. T. Norquist. No. 155,786; June 6.
Gasoline-engine spark plugs. Wollo Ignition Products Co. No. 155,873; June 6.
Gum, Chewing. Dudley Gum Company. No. 155,888; June 6.
Hair curlers. Electro Radite Company. No. 155,683; June 6.
Hair dyes, color restorers, and tonics. B. F. Goldman. No. 155,696; June 6.
Hairpins. Empire Notion Co. No. 155,679; June 6.
Hair tonic. M. A. B. Dishmond. No. 155,668; June 6.
Hair tonic. Geraldine Company. No. 155,694; June 6.
Hair tonic, massage cream, toilet water. L. Auerbach. No. 155,605; June 6.
Hair wavers. Joseph W. Schloss Co. No. 155,819; June 6.
Hats. Calyork Manufacturing Company. No. 155,633; June 6.
Hats. Hammell-Neuman Co. No. 155,701; June 6.
Hats, Ladies'. Bud Hat Company. Nos. 155,630–1; June 6.
Hats, Ladies', misses', and children's. Ogus, Rabinovitch and Ogus Co. No. 155,790; June 6.
Healing powder for the feet, Antiseptic. W. L. Austin. No. 155,606; June 6.
Hose. B. Rosenthal. No. 155,810; June 6.
Hose couplings. Cleveland Pneumatic Tool Company. No. 155,882; June 6.
Hosiery. B. A. Levine. No. 155,749; June 6.
Hosiery. Louisville Knitting Company. No. 155,753; June 6.
Hosiery, Silk, wool, etc. David Levine & Sons. No. 155,750; June 6.
Inhaling compound for the protection of firemen and others. W. M. Mitchell. No. 155,766; June 6.
Insecticides. Central City Chemical Co. No. 155,637; June 6.
Insecticides. Meyers & Kaner. No. 155,763; June 6.
Insulating compound, Electric. Formica Insulation Company. No. 155,689; June 6.
Insulation and certain insulation devices, Fabricated material for electrical. Electrose Manufacturing Company. No. 155,678; June 6.
Iron and steel tubes, certain oil-well tubular goods, and fencing. Youngstown Sheet and Tube Company. No. 155,915; June 6.
Kneepads. E. N. Kauffman. No. 155,732; June 6.
Lace tippers. A. Youdelman. No. 155,914; June 6.
Laces, Shoe. Crescent Braid Co. No. 155,658; June 6.
Lamps, Brackets for electric. R. D. H. Anderson. No. 155,599; June 6.
Laxative preparations. Scholtz-Mutual Drug Company. No. 155,820; June 6.
Leather. J. H. Jackson Company. No. 155,727; June 6.
Leather. Monarch Leather Company. Nos. 155,899–900; June 6.
Leather and skins. George Fell & Son Limited. No. 155,687; June 6.
Lights, Flash, search, and spot. R. L. Hunter. No. 155,721; June 6.
Liniment for external use only, Bathing. Norwich Pharmacal Company, The. No. 155,787; June 6.
Liniment for goiter. Sedalia Medicine Company. No. 155,827; June 6.
Liquid preparation taken internally as an alterative. Robert C. White, Inc. No. 155,867; June 6.
Locomotive and tractors, Electric. Koppel Industrial Car & Equipment Company. No. 155,738; June 6.
Mattresses. Balyeat Mfg. Co. No. 155,608; June 6.
Mattresses. John Donohue & Sons, Inc. No. 155,670; June 6.
Mattresses. Gangelhoff Bros. No. 155,692; June 6.
Mattresses. C. F. Lottman & Sons. No. 155,752; June 6.
Mattresses. John A. Schwarz, Inc. No. 155,822; June 6.
Mattresses, Felt. International Bedding Co. No. 155,724; June 6.
Mattresses, Felt. International Bedding Co. Inc. No. 155,725; June 6.
Medical preparation for sore throat, cuts, sores, etc. Kwik Mfg. Co. No. 155,742; June 6.
Medical preparation for the feet. N. J. Geilen. No. 155,695; June 6.
Medical preparation for treating the feet against sweat secretions. A. G. Petkus. No. 155,796; June 6.
Medicated preparation for dyspepsia, nausea, etc. Thatcher-Clore Drug Co. No. 155,848; June 6.
Medicinal preparation for asthma. Bitzer & Rommel. No. 155,622; June 6.
Medicinal preparations, Certain. W. Bell. No. 155,615; June 6.
Medicine, Antiseptic. F. W. Schoppenhorst. No. 155,821; June 6.
Medicine composed of various liquids and vegetable products. S. Pembroke. No. 155,795; June 6.
Medicine for goiter. A. Plotz. No. 155,798; June 6.
Medicine for the treatment of whooping cough. W. R. Spence. No. 155,839; June 6.
Medicine to produce twilight sleep. Society of Chemical Industry in Basle. No. 155,836; June 6.
Medicine used in the treatment of pneumonia. S. Ruocco. No. 155,811; June 6.
Metal polish. B. Heller & Co. No. 155,704; June 6.
Metal polish, oil soap, etc. R. M. Hollingshead Co. No. 155,715; June 6.
Middy blouses. Kramer, Sauber & Kesting Incorporated. No. 155,739; June 6.
Mixture for treatment of pneumonia, influenza, etc. J. C. Raven. No. 155,806; June 6.
Mouth wash. Bowman Drug Co. No. 155,625; June 6.
Notions, Certain. Waldes & Co. No. 155,858; June 6.
Notions, Certain. Walker Webbing Co. Nos. 155,859–60; June 6.
Oil, Salad. M. Heller. Nos. 155,705–6; June 6.
Oils and furniture and automobile polish, Floor. Standard Oil Company (Incorporated in New Jersey). No. 155,911; June 6.
Ointment. W. D. Davis. No. 155,887; June 6.
Oranges. Covina Orange Growers Association. No. 155,657; June 6.
Pants, jackets, and overalls, Work. H. Edelman. No. 155,674; June 6.
Paper patterns. W. L. M. Clark, Incorporated. No. 155,643; June 6.
Paper pulp. Stamsocott Company. No. 155,842; June 6.
Papers and typewriter ribbons, Carbon. O. H. Sandman. No. 155,908; June 6.
Perfume. A. W. Herbst. Nos. 155,709–11; June 6.
Perfumes, Liquid and powdered. Colgate & Co. Nos. 155,646–7; June 6.
Photographic developer. Chemicals and By-Products Limited. No. 155,639; June 6.
Photographic developers, acids, etc. Defender Photo Supply Company. No. 155,664; June 6.
Pile remedy. W. H. McAbee. No. 155,756; June 6.
Pillows, cushions, mattresses, etc., Certain aromatic fillings for. Crossett-Barton Company. No. 155,659; June 6.
Pills, Antibilious. J. G. Parks. No. 155,794; June 6.
Pins. N. Solow. No. 155,837; June 6.
Pins, Safety. Samstag & Hilder Bros. No. 155,817; June 6.
Plastic and granular materials, Mixers for. Blystone Manufacturing Company. No. 155,880; June 6.
Plate powder. Mappin & Webb Limited. No. 155,758; June 6.
Plow hitches, Tractor-. Gash, Stull & Company. No. 155,892; June 6.
Poles, Cedar telephone, telegraph, and transmission-line. Western Lumber & Pole Company. No. 155,865; June 6.
Polish, Metal. American Metal Polish Co. No. 155,597; June 6.
Polish, Shoe. Griffin Manufacturing Company. No. 155,698; June 6.
Polish, Shoe. National Shoe Polish Mfg. Co. No. 155,772; June 6.
Pomade. Mrs. G. W. Bendy. No. 155,617; June 6.
Pomade for the treatment of the scalp. L. Taylor. No. 155,847; June 6.
Powder, cold cream, vanishing cream, rouge, Face. Jameelah Jane Corporation. No. 155,729; June 6.
Powder, Medicinal. M. C. Kopf. No. 155,737; June 6.
Powder puffs. F. Uhry. No. 155,852; June 6.
Powder, rouge, etc., Talcum. Cheramy, Inc. No. 155,640; June 6.
Powder, Toilet. Comfort Powder Co. Nos. 155,649–50; June 6.
Preparation for certain purposes. J. Eisenberg. No. 155,677; June 6.
Preparation for hay fevers, asthma, colds, and coughs. M. Pollatsek. No. 155,800; June 6.
Preparation for rheumatism, lumbago, neuritis, etc. C. H. Moore. No. 155,767; June 6.
Preparation for the treatment of piles. R. Palmer. No. 155,906; June 6.
Preparation for treatment of leucorrhea and cleansing the entire vagina. A. Petrie. No. 155,797; June 6.
Preparation for treatment of rheumatism, stomach trouble, etc. H. A. Siegrist. No. 155,834; June 6.
Preparation to clean and polish lenses (eyeglasses). O. L. Wunder Company. No. 155,875; June 6.
Preparation used in the treatment of the eyes. H. A. Hansen. No. 155,703; June 6.
Preparations for certain purposes. Dr. J. E. Strecker. No. 155,845; June 6.

Preparations or medicines, Certain. Heneph Co. No. 155,708; June 6.
Preparations or medicines for certain purposes. Bayer Co. No. 155,612; June 6.
Raincoats and sports jackets. Nicholson's Raincoat Co. Nos. 155,783–4; June 6.
Registers, Cabinets for. Egry Register Company. No. 155,676; June 6.
Remedies, Chill. W. R. Little. No. 155,751; June 6.
Roofing and roof cement, Prepared. John Sexton and Company. No. 155,829; June 6.
Rugs, Textile. Wm. Henderson & Co. No. 155,707; June 6.
Rust solvent. Halstead Specialties Company. No. 155,700; June 6.
Safety pins. Consolidated Safety Pin Company. Nos. 155,653–4; June 6.
Salt. Myles Salt Co. No. 155,902; June 6.
Salve. Sal-Cura Co. No. 155,815; June 6.
Salve for wounds, sores, etc. L. Bellaire. No. 155,616; June 6.
Salves for wounds, cuts, and bruises, Healing. N. Farynyk. No. 155,685; June 6.
Sand and gravel. Eau Claire Sand & Gravel Co. No. 155,675; June 6.
Sashes, Metal window. Federal Bridge and Structural Co. No. 155,686; June 6.
Scouring cloths. R. B. Kingman. No. 155,734; June 6.
Sedative and hypnotic. Winthrop Chemical Company. No. 155,871; June 6.
Seed, Farm. Springfield Seed Co. No. 155,841; June 6.
Seeds, Grass and field. Doughten Seed Company. Nos. 155,671–2; June 6.
Separators and churns. E. M. Salenius. No. 155,816; June 6.
Shampoo. H. H. Kuntzmann. No. 155,740; June 6.
Shampoo. Mistl Laboratory Co. No. 155,765; June 6.
Shampoos. Aladdin Products Company. No. 155,593; June 6.
Shampooing preparation. R. C. Brown. No. 155,627; June 6.
Shirts, pyjamas, nightshirts, underwear. C. Wax. No. 155,863; June 6.
Shoe laces. Baker-Poston-Hemphill & Co. No. 155,607; June 6.
Shovels, Mechanical. Lake Superior Loader Co. No. 155,743; June 6.
Skins, Muskrat. A. Kosofsky. No. 155,897; June 6.
Slippers, Felt. H. Wilhelm. No. 155,869; June 6.
Snap and placket fasteners. Waldes & Co. No. 155,857; June 6.
Soap. Procter and Gamble Company. No. 155,801; June 6.
Soap. Scotch-Tone Company. No. 155,824; June 6.
Soap. Sherwin-Williams Company. No. 155,831; June 6.
Soap and benzene soap. Innis, Speiden & Co. No. 155,722; June 6.
Soap and soap preparations. James Beach & Sons. No. 155,613; June 6.
Soap, Toilet. M. Lynch. No. 155,755; June 6.
Soaps. Colgate & Company. No. 155,645; June 6.
Soaps. Colgate & Company. No. 155,648; June 6.
Soaps. John Wanamaker, Philadelphia. No. 155,862; June 6.
Soaps, metal polish, leather dressing, Certain. Detroit White Lead Works. No. 155,665; June 6.
Soaps, Toilet. Cheramy, Incorporated. No. 155,641; June 6.
Soldering compound. R. M. Hollingshead Company. No. 155,716; June 6.
Spark intensifiers. S. O. S. Ignition Company. No. 155,838; June 6.
Spark plugs. Niles Manufacturing Company. No. 155,785; June 6.
Stay bolts, track, frog, and switch bolts, and nuts, etc., Boiler. Flannery Bolt Company. No. 155,889; June 6.
Suits and overcoats, Men's. Barron, Anderson Co. No. 155,610; June 6.
Suits and overcoats, Men's. B. Kuppenheimer and Co. No. 155,741; June 6.
Sulphur having insecticidal properties. San Francisco Sulphur Co. No. 155,818; June 6.
Switch boxes, motor inclosures, and safety switches. United Metal Box Co. No. 155,853; June 6.
Tablets, Medicinal throat. Devon Laboratories Co. No. 155,666; June 6.
Talking machines and parts and supplies therefor, Certain. International Talking Machine Company. No. 155,726; June 6.
Tires, Pneumatic rubber. Monroe Tire Corporation. No. 155,901; June 6.
Toilet powders and compacts. A. Bourjois & Co. No. 155,624; June 6.
Toilet preparation for coloring and treating eyebrows, eyelashes, and hair. Trece Laboratories, Inc. No. 155,850; June 6.
Toilet preparations. John Wanamaker, Philadelphia. No. 155,861; June 6.
Toilet preparations and chemicals used in the manufacture of same. Gomez & Sloan. No. 155,697; June 6.
Toilet preparations, Certain. Crystal Chemical Company. No. 155,661; June 6.
Toilet waters and creams, face powders, etc. Crown Supply Company. No. 155,660; June 6.
Tonic, Blood. J. S. Davis. No. 155,663; June 6.
Tonic, Medicinal. A. J. George. No. 155,693; June 6.
Tooth paste. K. C. Hudson. No. 155,719; June 6.
Tubes and valves, Vacuum. Radio Corporation of America. Nos. 155,802–5; June 6.
Ulsters and overcoats, Men's. Rosenberg Bros. & Co. No. 155,809; June 6.
Undergarments. P. H. Hanes Knitting Company. No. 155,702; June 6.
Valves, cocks, pipe fittings, etc., Certain. Crane Company. No. 155,886; June 6.
Vehicle trailers, bodies for automobiles and motor trucks, Motor-. L. M. Cotton. No. 155,883; June 6.
Vehicle trailers, bodies for automobiles and motor trucks, Motor-. L. M. Cotton. No. 155,885; June 6.
Vinegar. Idaho Vinegar & Cider Co. No. 155,894; June 6.
Wall-cases, showcases, and interchangeable shelving, Store. Interchangeable Wall Case Co. No. 155,723; June 6.
Washing machines, Laundry. Bell Washer and Wringer Company. No. 155,614; June 6.
Water and beverages made of water, Mineral. White Rock Mineral Springs Company. No. 155,912; June 6.
Water-closet bowls. Wolff Manufacturing Co. No. 155,913; June 6.
Webbing, Textile. Hudson Narrow Fabric Co. No. 155,720; June 6.
Zagat Inc., New York, N. Y. Emulsion made from castor and olive oils and chocolate. No. 155,877; June 6.
Zagat Inc., New York, N. Y. Emulsion made from cod-liver oil and chocolate. No. 155,878; June 6.
Zagat Inc., New York, N. Y. Epsom and rochelle salts, bicarbonate of soda, boracic acid, etc. No. 155,876; June 6.

ALPHABETICAL LIST OF LABELS.

"Andy Gump Drops." (For Candy.) S. Smith. No. 24,474; June 6.
"Andy Gump Drops." (For Candy.) S. Smith. No. 24,475; June 6.
"Bang Bird America's Popular Parlor Game." (For Boxes Containing the Game Apparatus.) O. E. Jacobs. No. 24,453; June 6.
"Barker's Gape Remedy." (For a Remedy for a Gape in Poultry.) Barker, Moore & Mein Medicine Co. No. 24,435; June 6.
"Belinda's Joy." (For a Washing Compound.) F. T. Osbaldeston. No. 24,461; June 6.
"Best Yet." (For Bread.) S. H. Bakken. No. 24,434; June 6.
"Big Hit Nut Roll." (For Candy.) Friedman-Kerr Co. No. 24,447; June 6.
"Blue & White Soap." (For Soap.) Blue & White Soap Co. No. 24,433; June 6.
"Brant Load." (For Loaded Shot Shells.) Remington Arms Company. No. 24,469; June 6.
"Brook-Side." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 24,457; June 6.
"Celery Phos-Fo." (For a Medicinal Preparation Named Celery Phos-Fo.) Gotham Chemical Company. No. 24,450; June 6.
"Dandy Boy." (For Candy.) Friedman-Kerr Co. No. 24,444; June 6.
"Devil's Food Devilish Good." (For Candy.) Friedman-Kerr Co. No. 24,445; June 6.
"Diaz Brand." (For Macaroni.) Campanella & Favora Macaroni Co. No. 24,438; June 6.
"Duck Load." (For Loaded Shot Shells.) Remington Arms Company. No. 24,467; June 6.
"Edelweiss." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 24,459; June 6.
"Glen Rosa." (For Oranges.) L. A. Banks. No. 24,432; June 6.
"Goose Load." (For Loaded Shot Shells.) Remington Arms Company. No. 24,472; June 6.
"Grape Raspberry Jam." (For a Spread or Jam for Bread, Toast, and Muffins.) Welch Grape Juice Company. No. 24,480; June 6.
"Gridley's." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 24,456; June 6.
"Grouse Load." (For Loaded Shot Shells.) Remington Arms Company. No. 24,473; June 6.
"Harvest." (For Bread.) Waxtwell Paper Company. No. 24,479; June 6.
"Heavy Duck Load." (For Loaded Shot Shells.) Remington Arms Company. No. 24,468; June 6.
"Hog-Nip Flavor." (For the Containers for a Hog Remedy in the Form of a Biscuit.) Peters Hog-Biscuit Co. No. 24,462; June 6.

"It Kills 'Not' Drives." (For Insect Exterminators.) Plenge's Pharmacy Inc. No. 24,463; June 6.
"Jameson's Rheumatic & Neuritis Herb Remedy." (For a Medicine for Rheumatism and Neuritis.) F. Jameson. No. 24,454; June 6.
"Kerr's Bun." (For Candy.) Friedman-Kerr Co. No. 24,446; June 6.
"Kerr's High Ball." (For Candy.) Friedman-Kerr Co. No. 24,449; June 6.
"Kerr's Snow Ball" (For Candy.) Friedman-Kerr Co. No. 24,448; June 6.
"Madden's Pick-Me-Up Tonic." (For Bottles Containing a Tonic.) Madden's Pharmacy. No. 24,455; June 6.
"None Such Bread." (For Bread.) Dragon Paper Mfg. Co. No. 24,442; June 6.
"Nut Roll Moonshine Minnie." (For Candy.) Friedman-Kerr Co. No 24,443; June 6.
"Oraseptine." (For a Fragrant Antiseptic Mouth Wash, Dentifrice, Gargle, and Douche.) Allied Drug and Chemical Corporation. No. 24,431; June 6.
"Permacrease." (For Packages Containing Permacrease, a Celluloid Glue.) C. J. Gregory. No. 24,451; June 6.
"Prada Sunbeam Polish." (For a Polish for Pianos, Furniture, Floors, Enamel Beds, Automobiles, and All Varnished and Enamel Surfaces.) J. E. Prada. No. 24,464; June 6.
"Purex." (For Containers Containing a Medicine—Namely, Mackenzie Regulators.) G. H. Guy. No. 24,452; June 6.
"Quail Load." (For Loaded Shot Shells.) Remington Arms Company. No. 24,471; June 6.
"Rabbit Load" (For Loaded Shot Shells.) Remington Arms Company. No. 24,470; June 6.
"Real Silk Fashioned Hosiery." (For Containers for Hosiery.) Real Silk Hosiery Mills. No. 24,465; June 6.
"Regum Tooth Paste." (For Tooth Paste.) H. N. Creger. No. 24,440; June 6.
"Research." (For Motor Oil.) Nebraska Buick Auto Co. No. 24,460; June 6.
"Seattle Ice Cream." (For Cartons Containing Ice Cream.) Menasha Printing and Carton Company. No. 24,458; June 6.
"Snipe Load." (For Loaded Shot Shells.) Remington Arms Company. No. 24,466; June 6.
"Temple Oranges." (For Packages Containing Fresh Oranges. Buckeye Nurseries Incorporated. No. 24,437; June 6.
"The Dream Feast." (For a Baked Confection.) E. D. Brown. No. 24,436; June 6.
"The Universal Toy." (For Masks.) Dessart Bros. No. 24,441; June 6.
"Theodora." (For Cigars) V. Cardali. No. 24,439; June 6.
"Tillman's Seal Havana." (For the Ends of Cigar Boxes.) Tillman Cigar Co. No. 24,477; June 6.
"Tillman's Seal Havana." (For the Inside Lid of Cigar Boxes.) Tillman Cigar Co. No. 24,476; June 6.
"Virden's Dinty Moore." (For Cooked Corned Beef.) Virden Packing Company. No. 24,478; June 6.

ALPHABETICAL LIST OF PRINTS.

"Black & White." (For Advertising Purposes for Fountain Pens.) Salz Brothers. No. 6,151; June 6.
"Cotton Fabrics that Insure Profits." (For Advertising Purposes for Cotton Piece Goods.) Baum, Strauss & Co. No. 6,144; June 6.
"Metsan Aseptic Needles." (For Advertising Purposes for Aseptic Needles.) Metsan Dental Mfg. Co. No. 6,147; June 6.
"Pretty when she wakes up." (For Advertising Purposes for Palmolive Soap.) The Palmolive Company. No. 6,149; June 6.
"Racine Heel Protector." (For Advertising Purposes for a Knitted Nonslip Lining.) Milwaukee Paper Box Company. No. 6,148; June 6.
"Take your pick of a Fliverstick." (For Advertising Purposes for Candy.) Candy Craft, Inc. No. 6,145; June 6.
"The Value of TIME." (For Advertising Purposes for Watches.) Elgin National Watch Company. No. 6,146; June 6.
"Van Heusen the World's Smartest Collar." (For Advertising Purposes for a Special Kind of Collar.) Phillips-Jones Corporation. No. 6,150; June 6.
"Yellow Cabs Stand the Gaff." (For Advertising Purposes for Taxicabs.) Yellow Cab Manufacturing Co. No. 61,153; June 6.
"Yellow Cabs take the Tax out of Taxicab." (For Advertising Purposes for Taxicabs.) Yellow Cab Manufacturing Co. No. 6,152; June 6.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Almond meal, foot, shampoo, and face powders, hair tonic, etc. E. Hallman. No. 129,385; June 6.
Almond paste. Hartmann Food Product Co. No. 150,146; June 6.
Alum, copper sulphate, powdered boric acid, etc., Lump and powdered. J. S. Merrell Drug Company. No. 137,889; June 6.
Aluminum utensils. Eastern Aluminum Company. No. 149,850; June 6.
Antileak compound. Thomas Company. No. 143,230; June 6.
Antiskid chains for vehicle wheels. American Chain Company. No. 155,005; June 6.
Aprons, house dresses, and dresses of cotton material, Ladies'. J. A. and R. E. Solmes. No. 156,202; June 6.
Bath powder, Foot. A. L. Porter. No. 158,891; June 6.
Bath robes. Herzog & Kramer. No. 152,891; June 6.
Bathing suits. Long Island Knitting Mills Co. No. 156,497; June 6.
Bathroom fixtures and enameled ware. Whyt E Naml Specialty Co. No. 159,003; June 6.
Bearings, pistons, piston, wrist, and fan-pulley pins, gears, etc. Kanouse & Foote. No. 152,624; June 6.
Beef, Corned. Swift and Company. No. 139,326; June 6.
Belt hooks. J. D. Sawyer. No. 158,896; June 6.
Beverage sold as a soft drink. Crown Brewing Co. No. 161,969; June 6.
Bit stocks and drilling machines, bits, and augers, etc., Angular. Millers Falls Company. No. 143,990; June 6.
Blankets, blanket fabrics in the piece, cotton piece goods, robes, etc. Esmond Mills. No. 155,672; June 6.
Blankets, robes, and rugs, Cotton and wool. Wolfeboro Mills. No. 159,395; June 6.
Bloomers, children's coveralls, and sleeping garments. Winget Manufacturing Co. No. 155,382; June 6.
Blouses, bloomers, skirts, knickers, etc., for females. Kenilworth Manufacturing Co. No. 150,110; June 6.
Boilers, Tubular gas. Bryant Heater and Manufacturing Co. No. 161,028; June 6.
Boots and shoes, Leather. H. O. Quick. No. 156,713; June 6.
Boots, shoes, slippers, and rubbers. Smith Shoe Co. No. 157,736; June 6.
Brass pipe. Bridgeport Brass Company. No. 159,074; June 6.
Bread. Beech-Nut Packing Company. No. 155,658; June 6.
Brushes, Hair, cloth, flesh, and nail. Atlantic Comb Works. No. 128,382; June 6.
Butter. Creamery. Cadillac Produce Company. No. 148,833; June 6.
Buttermilk tablets. Parke, Davis & Company. No. 155,704; June 6.
Candy. Candy Products Corporation. No. 145,056; June 6.
Candy. Euclid Candy Company. No. 154,492; June 6.
Candy. Nichols Candy Company. No. 152,031; June 6.
Candy. R. Romero. No. 156,923; June 6.
Canned fish, vegetables, and fruits, spices, etc. Federal Grocery Co. No. 154,870; June 6.
Canned fruits and vegetables. Virden Packing Company. No. 154,901; June 6.
Canned fruits and vegetables. Virden Packing Company. No. 154,904; June 6.
Canned peas and corn. Aunt Nellie's Farm Kitchen. No. 154,174; June 6.
Canned sardines. Great Atlantic and Pacific Tea Company. No. 156,346; June 6.
Canned vegetables. W. R. Roach & Co. No. 113,167; June 6.
Caps and hats for men, women, and children. Seattle Cap Manufacturing Co. No. 152,449; June 6.
Carbon remover. T. S. Witherspoon. No. 147,541; June 6.
Carburetors. U. S. Carburetor Co. No. 151,189; June 6.
Castings. Metallurgische Gesellschaft Richard Walter & Co. No. 136,123; June 6.
Cereal food products. Corno Mills Company. Nos. 148,532–3; June 6.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Chains for cycles, Driving. Perry and Company. No. 155,826; June 6.
Charcoal. Tennessee Eastman Corporation. No. 160,517; June 6.
Charcoal in its raw state, Absorbent. W. Adler. Nos. 144,997–8; June 6.
Chocolate bars. Rueckheim Bros. & Eckstein. No. 124,622; June 6.
Cigars. Patterson and Hoffman. No. 160,251; June 6.
Cigars. Reid, Murdoch & Co. No. 156,804; June 6.
Cigars. W. P. Roberts. No. 127,150; June 6.
Cigars. E. J. Schaefer. No. 146,994; June 6.
Cigars, cigarettes, smoking and chewing tobacco. Mi Favorita Cigar Company. No. 158,721; June 6.
Cigars, cigarettes, smoking and chewing tobacco. Mint Products Co. No. 159,520; June 6.
Cleanser for industrial, household, and all general cleaning. Trinity Chemical Corporation. No. 160,444; June 6.
Clothing for girls, Outer. Little Goddess Dress Co. No. 154,315; June 6.
Coal. Jewett, Bigelow & Brooks. No. 160,609; June 6.
Coats, Infants'. M. Kuster. No. 155,620; June 6.
Coffee. Klatte Coffee Company. No. 150,540; June 6.
Coffee and tea. International Coffee Co. No. 155,175; June 6.
Coffee extracts. Prepared. E. Haase. No. 148,839; June 6.
Collars. Frank & Co. No. 154,498; June 6.
Constipation pencils. F. E. Erickson. No. 158,920; June 6.
Cookies. Tru-Blu Biscuit Company. No. 144,484; June 6.
Corsets. Rite Form Corset Co. No. 154,569; June 9.
Cotton piece goods. Pelzer Manufacturing Company. No. 159,219; June 6.
Cotton piece goods. R. A. Suffern. No. 154,332; June 6.
Crayons. Wax and chalk. Standard Crayon Manufacturing Co. Nos. 161,799–802; June 6.
Creams and lotions, Face. C. W. Swearingen. No. 143,575; June 6.
Dates, grapes, and endives. Tunis. Van Dyk & Lindsay, Inc. No. 156,184; June 6.
Digester tankage used as a food for hogs and animals. F. F. Buhner. No. 152,532; June 6.
Dress panels. La Grace Dress Panel Manufacturing Co. No. 124,008; June 6.
Dresses, coats, and caps, Children's. Howard I. Branson & Co. No. 155,429; June 6.
Dresses, house dresses, and aprons, Kitchenette. Kaufman Manufacturing Co. No. 156,641; June 6.
Dresses, skirts, house robes, middies, etc. Eagle Garment Company. No. 156,892; June 6.
Eggs, egg yolk, and egg albumen, Dehydrated whole. Brown, Young & Co. No. 143,481; June 6.
Eggs, egg yolk, and egg albumen, Dehydrated whole. Joe Lowe Co. No. 143,503; June 6.
Fishing line. AshaWay Line & Twine Manufacturing Company. No. 157,817; June 6.
Flour and corn meal, Wheat. G. F. Obrecht. No. 147,939; June 6.
Flour, Graham flour, and corn meal, Wheat. Imperial Flour Mills Company. No. 152,056; June 6.
Flour, hard-wheat flour, pastry and cake flours, and bran, Wheat. Mallinson Bros. No. 151,883; June 6.
Flour, Wheat. Stanard Tilton Milling Co. No. 137,971; June 6.
Frocks and dresses, Women's. Rice-Stix Goods Company. No. 156,600; June 6.
Fudge. Snider & Cazel. No. 119,085; June 6.
Furnishings, undergarments, and clothing, Men's, boys', women's, girls', and misses'. Franklin Simon & Co. No. 152,720; June 6.
Ginger ale. Abner-Drury Company. No. 161,714; June 6.
Gloves, Fabric. Goldenberg's. No. 154,142; June 6.
Hair grease, hair oil, and shampoo. R. Chinn. No. 156,265; June 6.
Hair nets. C. K. Thau. No. 144,649; June 6.
Hair nets. Paristyle Novelty Co. No 158,437; June 6.
Hair, Pomatum dressing for the. Pannett & Neden. No. 157,332; June 6.
Hair tonic. Quinorient Company. No. 158,894; June 6.
Hats and caps. Kaplan, Scheuerle & Doyne. No. 154,799; June 6.
Hats and caps, Men's. Graf-Rosen Co. No. 148,935; June 6.
Hats, Ladies'. Stronge and Warren Company. No. 157,009; June 6.
Hats, Ladies' trimmed and tailored. Sig. Weisenburger & Co. No. 157,120; June 6.
Hose, Children's. J. C. Bossong. No. 155,136; June 6.
Hosiery. Emery & Beers Company. No. 155,552; June 6.
Hosiery. Paramount Knitting Company. No. 156,175; June 6.
Hosiery. Taylor and Watson, Inc. No. 155,373; June 6.
Hosiery, Silk. Mutual Hosiery Mills, Inc. No. 155,824; June 6.
Hosiery, Silk. Paterson Knitting Mills, Inc. No. 155,828; June 6.
Knit underwear for women and children. Wright's Underwear Company. No. 155,076; June 6.
Knitted hosiery and underwear. Walton N. Moore Dry Goods Co. No. 143,875; June 6.
Lamp chimneys, shades, and globes, lantern globes, etc. Gill Brothers Company. No. 160,760; June 6.
Lamps, candlesticks, and candelabra, Nonelectric oil. Ovington Bros. Company. No. 142,404; June 6.
Laxative. J. H. McKeon. No. 145,904; June 6.
Leather. Omaha Tanning Co. No. 160,425; June 6.
Linen fabrics. Irish Linen Society. No. 156,633; June 6.
Linens, Fancy. L. S. E. Co. Inc. No. 159,158; June 6.
Lingerie, Batiste. A. N. Saab. No. 156,863; June 6.
Lumber, Hardwood. Bellgrade Lumber Company. Nos. 163,029–30; June 6.
Malt extracts. H. Krauss. No. 162,422; June 6.
Meat and dairy products. Barton & Co. No. 151,532; June 6.
Medicine for asthma, croup, etc. E. McDonnell. No. 158,135; June 6.
Medicine for consumption, stomach poisoning, and for a general medicinal tonic. J. P. Biedka. No. 158,968; June 6.
Medicine for the treatment of the stomach, liver, and intestines. A. H. Swinburne. No. 158,265; June 6.
Medicinal preparation for rheumatism, etc. Delson Chemical Co. No. 158,858; June 6.
Medicinal preparation for use as a heart tonic or stimulant. Eli Lilly & Company. No. 158,987; June 6.
Milk, cream, butter, cheese, and ice cream. H. P. Hood & Sons. No. 146,215; June 6.
Nail-polish liquid, powder, and cake. Magic Nail Polish Co. No. 158,323; June 6.
Neckties and scarfs. Levy & Marcus. No. 149,967; June 6.
Neckties, cravats, and neckscarfs. Albert Neckwear Manufacturing Company. No. 149,792; June 6.
Neckwear. M. W. Lowenstein & Co. No. 154,148; June 6.
Newspaper and magazine articles, Nom de plume on. L. A. Krag. No. 151,919; June 6.
Nut-kernel paste. Gasco Specialty Company. No. 155,056; June 6.
Nut rolls, Chocolate-covered. Barg & Foster Candy Co. No. 154,429; June 6.
Nuts and fruits. J. D. Antonopulos. No. 139,504; June 6.
Oil, Oleo. Consolidated Rendering Co. No. 152,163; June 6.
Oil, Olive. V. Langmann, Inc. No. 156,998; June 6.
Oil, Olive. G. Sensat, Hijos. No. 155,345; June 6.
Oils, Heating and illuminating. Standard Oil Company. No. 150,977; June 6.
Onions, Raw. Confederated Onion Growers Association. No. 155,302; June 6.
Overalls, overall coats, trousers, and suits, coveralls, and work shirts. United States Overall Manufacturing Company. No. 156,607; June 6.
Paintbrushes. Baker Brush Co. No. 159,137; June 6.
Paper cleaner, Wall-. Absorene Manufacturing Company. No. 159,680; June 6.
Paper, Cover. Marvellum Company. No. 161,139; June 6.
Paper tablets, papeteries, typewriter tablets, etc., Writing. White & Wyckoff Manufacturing Company. No. 158,024; June 6.
Paper, Writing. Byron Weston Company. No. 156,558; June 6.
Parasols and umbrellas. S. C. Gelband. No. 160,058; June 6.
Pastry goods, both baked and cooked. E. L. Ballew. No. 151,979; June 6.
Perfumes sold as extracts and lotions. A. Bourjois & Co. No. 156,948; June 6.
Pictures, passepartouts, cards, and the like, Hook corners for hanging. R. C. Kirk. No. 156,534; June 6.
Plants, shrubs, trees, cut flowers, etc., W. M. Hansen. No. 160,192; June 6.
Plaster, liquid roof and plastic roofing cement, etc., Patching. Rutland Fire Clay Co. No. 162,455; June 6.
Pocketknives and parts thereof. Remington Arms Company. No. 151,481; June 6.
Powder and ammunition containing the same. Western Cartridge Company. No. 143,728; June 6.
Powder, perfumes sold as extracts, crystallized brilliantines, and sachet powder, Face. A. Bourjois & Co. No. 156,951; June 6.
Preparation for the treatment of blood diseases. A. Besson. No. 153,123; June 6.
Preserves and cheese. Pittsburgh Importing & Manufacturing Co. No. 149,975; June 6.
Pretzels. W. J. Bristol. No. 151,818; June 6.
Ranges, Gas. Gas & Electric Appliance Company. No. 161,484; June 6.
Road top dressing, Bituminous. E. W. Andersen. No. 160,786; June 6.
Rompers and playsuits, blouses, and girls' dresses, Children's. J. M. Thuman. No. 151,070; June 6.
Roofings, Waterproof and weatherproof. Paraffine Companies. No. 162,644; June 6.
Rouge in the nature of compact and face powder. A. Bourjois & Co. No. 156,949; June 6.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Rust remover, Chemical. A. C. Sinclare Co. No. 142,537; June 6.
Salad dressing, foods, and ingredients of foods. J. B. Smith. No. 154,536; June 6.
Shade brackets, Window-. S. A. Maxwell & Co. No. 157,939; June 6.
Shears, scissors, snips, clippers, razors, razor blades. J. Wiss & Sons Co. No. 153,193; June 6.
Shears, scissors, snips, clippers, razors, razor blades. J. Wiss & Sons Co. No. 153,631; June 6.
Sheets and pillowcases. R. H. Macy & Co. No. 144,925; June 6.
Sheets and pillowcases. Naumkeag Steam Cotton Co. No. 145,847; June 6.
Shirts, boys' blouses and playsuits, Men's and boys' work. J. C. Penney Company. No. 156,858; June 6.
Shoes and leather goods, Cleaning fluid for. Owl Drug Company. No. 160,965; June 6.
Shoes, Appliance for obtaining casts for fitting. Morse & Burt Co. No. 162,307; June 6.
Silk, Raw. S. A. Wenger & Co. No. 162,152; June 6.
Sirup, Cane and maple-sugar. New England Brewing Company. No. 155,768; June 6.
Skirt drawers and combinations, Women's. D. Bickum. No. 161,237; June 6.
Skirts, Misses' outer. F. Herman. No. 154,270; June 6.
Soap. Remmers Soap Company. No. 161,580; June 6.
Soap, Toilet. Crofts & Reed Co. No. 160,115; June 6.
Soap, Toilet. Andrew Jergens Company. No. 161,191; June 6.
Soaps. Bamacea Company. No. 159,338; June 6.
Soaps. Rieser Company. No. 161,013; June 6.
Soaps. Rieser Company. No. 161,201; June 6.
Soaps. Seven Oils Co. No. 161,069; June 6.
Soaps, soap pastes, and powders. Parfumerie Roger & Gallet. No. 160,079; June 6.
Spray diffusers for fluids. "Perolin" Fabrikationsgesellschaft m. b. H. No. 146,779; June 6.
Stair treads and floor plates. American Abrasive Metals Company. No. 158,666; June 6.
Stove polish. S. L. Black. No. 159,994; June 6.
Stoves, Coal and gas. Wincroft Stove Works. No. 161,663; June 6.
Stucco. Wm. Moellering's Sons. No. 160,823; June 6.
Stucco, Magnesite. National Magnesite Stucco Co. No. 160,962; June 6.
Sugar, butter, and substitutes, cocoa, chocolates, candy, etc. Progressive Grocery Stores. No. 148,032; June 6.
Switches and switch stands. Cincinnati Frog and Switch Co. No. 151,785; June 6.
Tablet, Chocolate laxative. Mutual Pharmacal Company. No. 158,053; June 6.
Teapots, coffeepots, biggins, teakettles, etc., Enameled steel. Columbian Enameling & Stamping Co. No. 157,302; June 6.
Telephone conversation in units of time, Meters for automatically recording the length of. Telechronometer Company of America, The. No. 156,204; June 6.
Toilet preparations. A. Bourjois & Co. No. 157,404; June 6.
Toilet preparations. I. J. Tetlow. No. 159,062; June 6.
Tonics, Medicinal. E. A. Morrissey Company. No. 146,225; June 6.
Tooth paste. H. L. Fleming. No. 161,246; June 6.
Toothbrushes. United Drug Company. No. 160,520; June 6.
Toothbrushes. United Drug Company. No. 161,758; June 6.
Toys. Art Metal Toy Company. No. 153,911; June 6.
Underwaists, body waists, corset waists, corsets, etc. Lay & Way Co. No. 147,927; June 6.
Valve mufflers, steam and air whistles, steam-boiler oil injectors, etc., Pop-. Lunkenheimer Company. No. 126,940; June 6.
Veterinary ointment for caked udders, sprains, bruises, etc. Lyndon Chemical Company. No. 159,039; June 6.
Wall board, plaster board, and gypsum plaster. Gipsolite Company. No. 160,937; June 6.
Washing compound. Trinity Chemical Corporation. No. 160,443; June 6.
Water-closet tanks, water closets, urinals, lavatories, etc. Thomas Maddock's Sons Company. No. 158,481; June 6.
Waterproof aprons. Rubberized Sheeting & Specialty Co. No. 157,044; June 6.
Wire fencing and barb wire. Keystone Steel & Wire Company. No. 157,997; June 6.
X-ray photographs of teeth, fiber-board frame used in displaying. Associated Radiograph Laboratories. No. 161,220; June 6.

CLASSIFICATION OF PATENTS

ISSUED JUNE 6, 1922.

NOTE.—First number=class, second number=subclass, third number=patent number.

1— 13: 1,418,853
2— 103: 1,418,354
135: 1,418,526
143: 1,418,578
144: 1,418,965
145: 1,418,281
1,419,059
5— 4: 1,418,382
5: 1,418,501
14: 1,418,608
18: 1,418,589
22: 1,419,015
56: 1,418,318
58: 1,418,541
72: 1,418,287
7— 3: 1,418,312
4: 1,418,529
10— 57: 1,418,500
124: 1,418,323
147: 1,418,815
12— 25: 1,418,604
145: 1,418,359
15— 21: 1,418,687
97: 1,419,018
100: 1,418,830
130: 1,418,383
16— 39: 1,418,711
103: 1,418,549
188: 1,418,919
202: 1,418,972
17— 10: 1,418,595
18— 2: 1,418,635
1,418,641
1,418,642
1,418,753
13: 1,419,090
42: 1,418,639
49: 1,418,271
53: 1,418,824
1,418,925
1,418,976
19— 116: 1,418,908
128: 1,418,493
129: 1,418,568
164: 1,418,552
20— 1: 1,418,510
1.13: 1,418,714
4: 1,418,464
45: 1,418,550
22— 65: 1,418,326
90: 1,419,086
142: 1,418,949
157: 1,418,703
23— 1: 1,418,578
1,419,008
3: 1,418,691
13: 1,418,527
1,418,528
1,418,848
22: 1,418,356
24: 1,418,882
24— 3.1: 1,418,979
6: 1,418,760
18: 1,418,743
1,418,938
27: 1,419,110
68: 1,419,043
87: 1,418,801
102: 1,418,934
104: 1,419,104
113: 1,419,034
133: 1,418,902
139: 1,418,543
206: 1,418,839
232: 1,419,060
241: 1,418,392
245: 1,418,819
1,418,823
261: 1,418,308
25— 20: 1,418,880
30: 1,418,859
121: 1,418,636
132: 1,418,594
142: 1,418,446
1,418,669
27— 30: 1,418,716
29— 78: 1,418,974
29— 84: 1,418,554
1,419,099
96: 1,418,987
1,418,992
99: 1,418,727
102: 1,418,983
30— 9: 1,418,352
11: 1,418,599
33— 2: 1,418,602
25: 1,418,614
28: 1,418,492
50: 1,418,935
106: 1,418,358
167: 1,419,004
211: 1,418,544
222: 1,418,926
34 3: 1,418,386
30: 1,418,638
36— 41: 1,418,428
55: 1,418,855
74: 1,418,425
1,418,894
37— 5: 1,419,101
40: 1,418,465
1,418,567
1,418,973
56: 1,419,047
58: 1,418,402
39— 80: 1,419,013
40— 61: 1,419,093
63: 1,418,466
1,418,467
64: 1,418,765
132: 1,418,454
1,418,615
41— 13: 1,418,846
42— 25: 1,418,862
74: 1,418,532
43— 46: 1,418,326
1,418,944
74: 1,418,864
96: 1,418,603
45— 52: 1,418,701
46— 4: 1,418,637
27: 1,418,775
1,418,999
31: 1,418,755
32: 1,418,936
41: 1,418,686
45: 1,419,096
46: 1,418,401
56: 1,419,056
59: 1,418,339
63: 1,419,074
64: 1,418,409
47— 36: 1,418,841
48— 111: 1,418,745
180: 1,418,877
205: 1,418,782
51— 15: 1,419,118
29: 1,418,419
100: 1,419,073
130: 1,418,887
1,419,078
145: 1,418,677
153: 1,418,694
172: 1,418,863
187: 1,418,975
194: 1,418,847
245: 1,418,744
261: 1,418,433
52— 5: 1,419,027
53— 1: 1,418,378
3: 1,418,432
1,418,436
54— 49: 1,418,504
55— 1: 1,418,981
12: 1,418,342
20: 1,418,933
36: 1,418,808
77: 1,418,780
56— 19: 1,418,476
1,418,542
192: 1,419,051
375: 1,419,022
58— 41: 1,418,487
54: 1,418,649
58— 54: 1,418,895
125: 1,419,029
140: 1,418,427
59— 85: 1,419,112
60— 42: 1,418,444
61— 34: 1,418,879
62— 3: 1,419,097
4: 1,418,488
1,418,806
35: 1,418,692
68: 1,418,665
63— 12: 1,419,021
64— 5: 1,418,577
14: 1,418,993
22: 1,418,276
1,418,540
25: 1,418,804
26: 1,418,404
32: 1,418,366
36: 1,418,886
1,418,888
55: 1,418,920
62: 1,418,277
1,418,304
1,418,652
91: 1,418,380
102: 1,418,689
66— 4: 1,418,617
5: 1,418,345
12: 1,419,084
25: 1,418,967
68— 5: 1,418,587
9: 1,418,960
19: 1,418,586
28: 1,418,273
1,418,275
29: 1,418,890
32: 1,418,821
34: 1,419,007
37: 1,419,107
70— 53: 1,418,571
1,418,681
1,418,778
65: 1,418,872
76: 1,418,290
90: 1,418,534
91: 1,418,786
129: 1,419,024
71— 9: 1,418,618
72— 38: 1,419,079
65: 1,418,742
75: 1,418,581
84: 1,419,108
96: 1,419,019
73— 4: 1,418,922
120: 1,419,012
74— 7: 1,418,447
1,418,517
1,418,565
1,418,962
14: 1,418,313
1,418,598
1,418,884
17: 1,418,309
28: 1,418,461
33: 1,418,693
34: 1,418,537
38: 1,418,519
40: 1,418,867
1,419,058
50: 1,418,129
59: 1,418,338
1,418,805
1,418,809
78: 1,418,330
79: 1,418,679
1,418,698
81: 1,418,340
1,418,968
98: 1,419,082
99: 1,418,452
105: 1,418,327
1,418,525
108: 1,418,719
109: 1,418,582
1,418,802
1,418,918
74— 109: 1,418,931
75— 1: 1,418,303
76 30: 1,419,103
77— 2: 1,418,923
27: 1,418,837
58: 1,418,459
1,418,485
80— 12: 1,418,697
48: 1,418,932
81— 15: 1,418,394
1,418,939
1,419,081
41: 1,418,733
63: 1,418,816
66: 1,418,768
91: 1,418,767
188: 1,418,757
83— 9: 1,418,523
11: 1,418,735
1,419,089
54: 1,418,866
56: 1,418,284
1,418,545
1,418,899
79: 1,418,442
85: 1,418,514
1,418,547
88: 1,419,052
85— 2: 1,419,016
87— 5: 1,418,800
9: 1,418,695
12: 1,419,109
13: 1,418,503
88— 17: 1,418,364
1,418,570
1,418,640
24: 1,418,690
50: 1,419,040
52: 1,419,005
89 1: 1,418,964
36: 1,418,995
39: 1,418,645
90— 15: 1,418,490
21: 1,419,117
91— 4: 1,418,715
41: 1,418,736
59.1: 1,418,412
60: 1,418,731
67.9: 1,418,456
68: 1,418,610
1,418,730
92— 11: 1,418,353
45: 1,419,002
93 5: 1,418,659
61: 1,419,048
94— 29: 1,418,341
31: 1,418,387
95— 9: R. 15,377
1,418,405
32: 1,418,280
96— 18: 1,418,521
97— 34: 1,419,102
35: 1,418,675
1,418,807
44: 1,418,410
70: 1,419,014
98— 28: 1,418,980
99— 2: 1,418,777
1,418,927
8: 1,418,457
11: 1,419,057
12: 1,418,609
13: 1,418,357
100— 19: 1,418,441
101— 226: 1,418,562
426: 1,418,481
102— 2: 1,418,606
3: 1,418,797
34: 1,418,963
103— 44: 1,418,741
66: 1,418,423
67: 1,418,548
75: 1,418,293
77: 1,418,672
85: 1,418,616
87: 1,418,951
1,418,952
103— 87: 1,418,953
104— 265: 1,418,588
105— 62: 1,418,355
195: 1,418,294
1,418,308
250: 1,418,722
299: 1,418,907
368: 1,418,634
423: 1,419,085
427: 1,418,406
106— 7.5: 1,418,607
9: 1,418,648
11: 1,418,372
22: 1,418,718
24: 1,418,810
27: 1,418,374
29: 1,418,896
32: 1,418,905
36.1: 1,419,032
108— 1: 1,418,377
5.8: 1,418,959
110— 47: 1,418,831
152: 1,418,483
112— 3: R. 15,373
35: 1,418,751
38: 1,418,752
61: 1,418,750
162: 1,419,088
235: 1,418,682
1,419,087
114— 18: 1,418,795
21: 1,418,788
1,418,789
1,418,790
1,418,791
1,418,792
1,418,793
1,418,794
1,418,796
1,418,869
1,418,870
24: 1,418,851
79: 1,418,629
116— 36: 1,419,105
48: 1,418,531
50: 1,418,346
119— 61: 1,418,516
120— 42: 1,418,696
47: 1,419,026
87: 1,418,858
121— 18: 1,418,333
163: 1,418,473
122— 183: 1,418,421
355: 1,418,272
123— 43: 1,418,875
51: 1,418,307
59: 1,418,415
61: 1,418,838
73: 1,418,668
90: 1,418,479
122: 1,418,270
139: 1,418,566
169: 1,418,632
178: 1,418,397
180: 1,418,591
193: 1,418,351
195: 1,418,282
126— 79: 1,419,011
83: 1,418,431
99: 1,418,776
109: R. 15,372
116: 1,418,361
260: 1,418,445
285: 1,418,988
298: 1,418,411
343.5: 1,418,630
127— 23: 1,418,311
1,418,320
128— 80: 1,418,283
88: 1,418,486
286: 1,419,041
129— 13: 1,418,329
130— 5: 1,418,424
30: 1,419,072
131— 12: 1,418,746
13: 1,419,106
34: 1,419,094
131— 43: 1,418,437
51: 1,418,737
132— 41: 1,418,291
52: 1,419,017
82: 1,418,520
134— 19: 1,418,274
44: 1,418,416
60: 1,418,385
1,418,811
79: 1,418,413
135— 53.1: 1,418,685
137— 101: 1,418,845
139: 1,418,278
138— 9: 1,418,651
48: 1,418,396
62: 1,418,512
67: 1,418,646
85: R. 15,375
R. 15,376
1,418,471
1,418,472
1,418,536
92: 1,418,494
1,419,077
140— 71: 1,418,470
102.5: 1,418,956
143— 68: 1,418,644
1,419,028
144— 117: 1,418,328
279: 1,418,597
291: 1,418,924
309: 1,418,546
145— 5: 1,418,513
61: 1,418,683
66: 1,419,100
146— 3: 1,418,840
7: 1,418,443
1,419,036
11: 1,418,511
12: 1,418,868
1,418,874
14: 1,418,666
148— 21: 1,418,985
1,418,986
150— 14: 1,418,403
18: 1,418,717
152— 8: 1,419,001
12: 1,418,524
1,419,038
13: 1,418,854
14: 1,418,373
1,418,873
1,418,916
16: 1,418,661
18: 1,419,045
20: 1,418,623
22: 1,418,656
27: 1,418,925
29: R. 15,371
1,418,723
35: 1,418,557
48: 1,418,515
153— 56: 1,418,955
80: 1,418,721
154— 1: 1,418,906
6: 1,418,535
10: 1,418,662
1,419,064
40: 1,418,891
45.9: 1,418,347
1,418,348
1,418,349
155— 51: 1,418,561
115: 1,418,709
181: 1,418,469
184: 1,418,940
188: 1,419,006
156— 44: 1,418,860
158 — 27.4: 1,418,688
29: 1,418,422
38: 1,419,025
46: 1,418,489
46.5: 1,418,482
61: 1,418,407
75: 1,419,070
109: 1,419,054
1,419,116

158— 115: 1,418,994
161— 1: 1,418,748
20: 1,418,628
162— 1: 1,418,921
164— 16: 1,418,844
19: 1,419,037
29: 1,418,317
120: 1,418,474
166— 16: 1,418,612
167— 3: 1,419,031
170— 21: 1,419,000
159: 1,418,991
1,419,061
163: 1,418,399
1,418,622
171— 95: 1,418,367
206: 1,418,856
209: 1,419,076
223: 1,419,071
252: 1,418,857
309: R. 15,370
314: 1,418,398
172— 274: 1,418,779
173— 264: 1,418,369
273: 1,418,650
324: 1,418,468
358: 1,418,302
174— 177: 1,418,903
175— 294: 1,418,726
363: 1,418,477
177— 327: 1,418,702
1,419,069
328: 1,418,969
336: 1,418,322
351: 1,419,010
179— 164: 1,418,764
171: 1,418,285
182: 1,419,063
180— 12: 1,419,113
14: 1,418,842
43: 1,418,948
77: 1,418,843
82: 1,418,619
83: 1,418,678
90: 1,419,120
181— 25: 1,418,388
27: 1,418,909
32: 1,418,998
182— 12: 1,418,941
184— 1: 1,418,580
6: 1,418,108
15: 1,418,892
64: 1,418,360
185— 38: 1,418,657
188— 232: 1,418,391
1,418,734
189— 1: 1,418,297
35: 1,418,699

189— 50: 1,418,732
190— 13: 1,418,564
191— 60: 1,418,579
62: 1,418,389
63: 1,418,833
192— 17: 1,418,747
60: 1,418,761
104: 1,418,350
193— 29: 1,418,738
46: 1,418,573
194— 48: 1,419,055
57: 1,418,300
65: 1,419,095
88: 1,418,301
195— 32: 1,418,945
196— 1: 1,418,375
5: 1,418,885
19: 1,418,970
25: 1,418,414
1,418,713
1,419,121
1,419,122
1,419,123
1,419,125
27: 1,418,621
1,418,893
28: 1,418,781
197— 22: 1,418,440
114: 1,418,901
126: 1,418,480
1,418,624
132: 1,418,506
198— 1: 1,418,418
43: 1,418,417
113: 1,418,724
133: 1,418,865
159: 1,418,574
189: 1,418,572
1,418,590
199— 72: 1,419,030
200— 11: 1,418,674
19: 1,418,881
1,419,042
24: 1,418,836
26: 1,419,039
74: 1,418,558
97: 1,418,803
103: R. 15,374
128: 1,418,710
135: 1,419,114
140: 1,418,913
147: 1,418,928
168: 1,418,376
204— 64: R. 15,378
1,418,773
1,418,984
206— 1: 1,418,462
1,418,954

206— 44: 1,418,798
208— 34: 1,418,817
42: 1,418,626
165: 1,418,849
210— 31: 1,418,289
52: 1,418,670
84: 1,418,785
211— 7: 1,418,560
8: 1,419,075
9: 1,418,787
15: 1,418,563
16: 1,418,555
27: 1,418,435
213— 5: 1,418,861
17: 1,418,784
40: 1,419,009
42: 1,418,450
67: 1,418,958
1,419,119
214— 6: 1,418,658
38: 1,418,966
81.5: 1,418,997
145: 1,418,321
215— 6: 1,418,814
11: 1,418,268
51: 1,419,003
71: 1,418,439
216— 9: 1,418,455
20: 1,418,653
28: 1,418,600
217— 56: 1,418,625
61: 1,418,673
155: 1,418,508
219— 13: 1,418,707
19: 1,418,496
34: 1,418,667
1,418,671
1,418,917
39: 1,418,460
63: 1,418,633
1,418,834
76: 1,418,362
220— 22: 1,418,324
25: 1,418,530
42: 1,418,897
53: 1,418,914
55: 1,418,498
221— 51: 1,418,576
104: 1,418,292
223— 24: 1,418,288
28: 1,418,381
224— 5: 1,418,371
29: 1,418,279
1,418,426
1,418,676
1,419,080
226— 8: 1,418,451
84: 1,418,631

229— 54: 1,418,705
71: 1,418,620
87: 1,419,053
92.9: 1,419,065
230— 11: 1,418,704
30: 1,418,910
32: 1,418,680
234— 1: 1,418,725
21: 1,418,996
235— 32: 1,418,770
84: 1,418,947
91: 1,418,384
94: 1,418,495
144: 1,418,507
236— 1: 1,418,871
25: 1,418,812
237— 9: 1,418,835
63: 1,418,583
238— 20: 1,418,950
1,419,046
41: 1,418,505
83: 1,418,708
143: 1,418,509
203: 1,418,915
244: 1,418,930
292: 1,418,286
240— 7: 1,418,553
41: 1,419,062
45.2: 1,418,319
52: 1,418,832
61: 1,418,325
1,418,769
62: 1,418,982
103: 1,418,556
242— 59: 1,418,365
91: 1,418,575
99: 1,418,706
244— 1: 1,418,491
1,418,605
1,418,783
2: 1,418,762
1,418,943
1,419,041
15: 1,418,502
25: 1,418,522
29: 1,418,335
246— 33: 1,418,663
171: 1,418,827
194: 1,418,601
225: 1,418,978
273: 1,418,559
293: 1,418,475
294: 1,418,660
247— 25: 1,418,989
1,418,990
35: 1,418,370
248— 20: 1,418,820

248— 30: 1,418,655
41: 1,418,883
44: 1,418,898
250— 33: 1,418,729
36: 1,418,739
38: 1,418,518
251— 25: 1,418,850
125: 1,418,592
129: 1,418,911
132: 1,418,664
1,418,363
252— 191: 1,418,344
254— 36: 1,419,023
97: 1,418,654
119: 1,418,343
255— 4: 1,419,068
53: 1,418,336
256— 57: 1,418,684
73: 1,418,332
257— 125: 1,418,334
130: 1,419,111
132: 1,418,393
184: 1,418,957
259— 75: 1,418,295
84: 1,419,033
107: 1,418,749
260— 24: 1,418,771
1,418,772
25: 1,419,091
1,419,092
36: 1,418,852
105: 1,418,900
134: 1,418,368
137: 1,418,904
138: 1,418,448
168: 1,419,124
261— 20: 1,418,876
41: 1,418,499
1,419,025
76: 1,418,756
99: 1,418,942
125: 1,418,296
262— 33: 1,418,463
267— 9: 1,418,828
16: 1,418,742
29: 1,418,484
1,418,813
31: 1,418,912
41: 1,419,083
45: 1,419,098
52: 1,418,799
60: 1,418,758
66: 1,418,759
268— 9: 1,418,420
273— 1,419,049
274— 15: 1,418,584
37: 1,418,448

280— 14: 1,418,829
15: 1,418,818
24: 1,418,299
33.8: 1,418,700
49: 1,418,929
52: 1,418,754
61: 1,419,067
84: 1,418,889
87.5: 1,418,569
1,418,647
112: 1,418,613
281— 25: 1,418,314
283— 9: 1,418,611
17: 1,418,315
37: 1,418,269
51: 1,419,066
60: 1,419,020
287— 52: 1,418,379
53: 1,418,728
59: 1,418,298
290— 10: 1,418,977
29: 1,418,390
38: 1,418,449
292— 40: 1,418,822
295: 1,418,593
293— 25: 1,418,720
55: 1,418,395
1,418,453
1,418,946
294— 90: 1,419,115
94: 1,418,538
95: 1,418,533
96: 1,418,766
296— 8: 1,418,774
21: 1,418,596
33: 1,418,305
37: 1,418,438
84: 1,418,430
85: 1,418,643
95: 1,418,551
139: 1,418,627
145: 1,418,539
298— 18: 1,418,037
19: 1,418,387
299— 4: 1,418,740
76: 1,418,763
84: 1,418,197
301 29: 1,418,458
45: 1,418,585
59: 1,418,331
303— 8: 1,418,434
27: 1,418,961
42: 1,418,400
305— 7: 1,418,310
10: 1,418,316
13: 1,418,971
1,419,050

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 13TH DAY OF JUNE, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abbott, Cecil C., Harbor Springs, W. E. Bassett and B. L. Bassett, assignors of one-fourth to I. L. Bassett, Detroit, Mich. Fire escape. No. 1,419,532; June 13.

Acker, Edna H., assignor to S. N. Acker, Washington, D. C. Theatrical appliance. No. 1,419,191; June 13.

Acker, Samuel N. (See Acker, Edna H., assignor.)

Ackermann, William E., Portsmouth, Ohio. Expanded metal structure. No. 1,419,709; June 13.

Actieu Gesellschaft fur Anilin Fabrikation. (See Goldberg, P., Onnertz, and Peters, assignors.)

Actien Gesellschaft fur Anilin Fabrikation. (See Haugwitz, Rudolf, assignor.)

Actien Gesellschaft fur Anilin Fabrikation. (See Herzberg, W., and Hoppe, assignors.)

Actien Gesellschaft fur Anilin Fabrikation. (See Herzberg, W., and Scharfenberg, assignors.)

Adams-Bach Hdkf. Mfg. Co. (See Bach, Irvin S., assignor.)

Adamson, Walter. (See Burstall, William H., assignor.)

Aeolian Company, The. (See Head, Robert, assignor.)

Airdry Corporation. (See Bassette, John G., assignor.)

Airdry Corporation. (See Watrous, Denton J., assignor.)

Air Reduction Company, Inc. (See Metzger, Floyd J., assignor.)

Akroyd, Harry W., Philadelphia, Pa. Optical toy. No. 1,419,657; June 13.

Aktiebolaget Vaporackumulator. (See Ruths, Johannes K., assignor.)

Albrecht, Albert W., St. Louis, Mo. Apparatus for the manufacture of metallic balls. No. 1,419,599; June 13.

Alderman, Eugene R., Holyoke, Mass. Doffing apparatus. No. 1,419,192; June 13.

Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Amplifying system. No. 1,419,797; June 13.

Allen, Napoleon B., Brooklyn, N. Y. Clamp. No. 1,419,193; June 13.

Allen, W. D., Manufacturing Company. (See Ryerson, Thorval L., assignor.)

Amburson, Gustave A., San Francisco, Calif. Motor sled. No. 1,419,483; June 13.

American Aero Company. (See Juelson, Edwin, assignor.)

American Atomized Fuel Company. (See Gentine, Howard L., assignor.)

American Can Company. (See Miller, Henry, assignor.)

American Hardware Corporation, The. (See Stone, Elmer B., assignor.)

American Steel Foundries. (See Bauer, Carl E., assignor.)

American Telephone and Telegraph Company. (See Hitchcock, Harry W., assignor.)

American Telephone and Telegraph Company. (See Potts, Louis M., assignor.)

Anderson, Harry T., Butler, Pa., assignor to Harry Vissering & Company, Chicago, Ill. Manufacture of railway draft-gear yokes. No. 1,419,346; June 13.

Anderson, John L., Ogden, Utah. Nesting camp heater. No. 1,419,600; June 13.

Anderson, Otto, and F. W. Salsbury, Pawtucket, R. I. Windshield cleaner for automobiles. No. 1,419,601; June 13.

Andrews, Paul I., Kennebunk, Me. Antifriction attachment for greenhouse benches. No. 1,419,484; June 13.

Angel, Edmond C., Chattanooga, Tenn. Gaseous-fuel mixer. No. 1,419,710; June 13.

Angers, Alfred, Black Lake, Quebec, Canada. Asbestos-fiber separator. No. 1,419,437; June 13.

Annis, Burleigh F., Chattanooga, Tenn. Damper. No. 1,419,438; June 13.

Anthony, Stanley, Boston, Mass. Index. No. 1,419,194; June 13.

Arcaro, James G., Washington, D. C., and T. C. Furr, Rosslyn, Va. Assorting device. No. 1,419,485; June 13.

Armstrong, Frank H., Auburn, assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting machine. No. 1,419,196; June 13.

Armstrong, Frank H., Auburn, and E. L. Harmon, assignors to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting machine. No. 1,419,195; June 13.

Aschinger, Harry W., Indianapolis, Ind. Spark plug. No. 1,419,197; June 13.

Ashby, Brodie H., Dallas, Tex. Traction band. No. 1,419,533; June 13.

Ashley, Frank M., New York, N. Y. Fountain pen. No. 1,419,439; June 13.

Ashley, Frank M., New York, N. Y. Making plates for musical instruments. No. 1,419,440; June 13.

Aspden, Ralph L. (See Bowman, F. H., and Aspden.)

Aspden, Richard E. (See Bowman, F. H., and Aspden, assignors.)

Atomized Products Corporation. (See Faber, H. B., and Harding, assignors.)

Aton, William E., Milburn, assignor to Milburn Implement Manufacturing Co., Arlington, Ky. Agricultural implement. No. 1,419,602; June 13.

August Riedinger, Ballonfabrik Augsburg Aktiengesellschaft. (See Meyer, Hermann, assignor.)

Austin, John T., assignor to The Austin Organ Company, Hartford, Conn. Resonator for reed pipes. No. 1,419,486; June 13.

Austin Organ Company, The. (See Austin, John T., assignor.)

Automatic Truck Brake Company. (See Paschke, Otto H., assignor.)

Bach, Irvin S., East Rockaway, assignor to Adams-Bach Hdkf. Mfg. Co., New York, N. Y. Handkerchief set. No. 1,419,658; June 13.

Bacharach, Herman, assignor to Bacharach Industrial Instrument Company, Pittsburgh, Pa. Device for measuring the velocity of gases. No. 1,419,798; June 13.

Bacharach Industrial Instrument Company. (See Bacharach, Herman, assignor.)

Bacot, Byron L., McComb, Miss. Tile-molding machine. No. 1,419,198; June 13.

Badich, George, Knoxville, Tenn. Nonslipping shoe tongue. No. 1,419,199; June 13.

Badische Maschinenfabrik & Eisengiesserei vorm. G. Sebold und Sebold & Neff. (See Henninger, Ludwig, assignor.)

Baehr, Gustave, Paris, France. Vehicle top. No. 1,419,799; June 13.

Bailey, Raymond W., Akron, Ohio. Fishing hook. No. 1,419,903; June 13.

Baird Corn Husker Co. (See Baird, William S., assignor.)

Baird, William S., Decatur, assignor to Baird Corn Husker Co., Champion, Ill. Stalk-arm attachment for corn-harvesting machines. No. 1,419,347; June 13.

Baker, Arthur R., assignor, by mesne assignments, to C. G. McCutchen, Indianapolis, Ind. Igniter trip mechanism. No. 1,419,711; June 13.

Baker, Newton D., Secretary of War, trustee. (See Newman, Edwin P. S., assignor.)

Baker-Perkins Manufacturing Corporation. (See Gase, Eugene, assignor.)

Baker, Thaddeus R. (See Keeler, Frank F., Sr., assignor.)

Baldwin, James L., Chicago, Ill. Store-service apparatus. No. 1,419,200; June 13.

Bamberger, Raymond S., Arcadia, Calif. Car suspension for balloons. No. 1,419,205; June 13.

Barber, William M., Somerville, Mass. Paper-drying machine. No. 1,419,534; June 13.

Barch, Walter F., Washington, D. C. Lettering pen. No. 1,419,441; June 13.

Bardowick, Martin D. J. G., Deinste, near Stade, Germany. Potato-harvesting machine. No. 1,419,800; June 13.

Barksdale, George R., Stratford, Ontario, Canada. Disk-grinder attachment. No. 1,419,535; June 13.

Barnett, James. (See Craib, F., and Barnett.)

Barrell Holding and Manufacturing Company. (See Ratzburg, Victor P., assignor.) (Reissue.)

Basset, Lucien P., Paris, France. Making iron or steel. No. 1,419,801; June 13.

Bassett, Bert L. (See Abbott, C. C., and Bassett.)

Bassett, Irvin L. (See Abbott, C. C., and Bassett, assignors.)

Bassett, Willard E. (See Abbott, C. C., and Bassett.)

Bassette, John G., assignor to Airdry Corporation, Groton, N. Y. Drying machine. No. 1,419,712; June 13.

Bates, Arthur, Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Upper-shaping machine. No. 1,419,202; June 13.

Bates, Arthur, Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Upper-shaping machine. No. 1,419,204; June 13.

Bates Arthur, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,419,201; June 13.

Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,419,203; June 13.
Bauer, Carl E., Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill. Car bolster and making same. No. 1,419,348; June 13.
Beam, Otis L., Milwaukee, Wis. Dirigible headlight. No. 1,419,603; June 13.
Bear, John F., Mansfield, Ohio. Supporter for suspenders. No. 1,419,802; June 13.
Bechberger, Earl H., Cleveland, Ohio. Nut lock. (Reissue.) No. 15,379; June 13.
Beck, George E., Cleveland, Ohio, and T. E. Kirkpatrick, Lake Worth, Fla. Conduit support. No. 1,419,536; June 13.
Beckham, John, Austin, Tex. Fire preventer for moving-picture machines. No. 1,419,206; June 13.
Beckley, Major H. E., assignor to A. J. Nystrom & Co., Chicago, Ill. Geographical globe. No. 1,419,604; June 13.
Beckman, Amanda, Los Angeles, Calif. Curtain rod. No. 1,419,207; June 13.
Bedford, George, Toronto, Ontario, Canada. Player-piano action. No. 1,419,349; June 13.
Beeman, Edwin R., assignor to Beeman Tractor Company, Minneapolis, Minn. Traction machine. No. 1,419,605; June 13.
Beeman Tractor Company. (See Beeman, Edwin R., assignor.)
Beers, Louis E., Wilkinsburg, Pa. Ice-rut remover for vehicles. No. 1,419,350; June 13.
Bellar, Charles J., assignor to The Cuyahoga Parts Company, Cleveland, Ohio. Cement spreader. No. 1,419,537; June 13.
Benedict, Theobald, assignor of one-third to J. Dietrich, New York, N. Y. Telephone muffler. No. 1,419,606; June 13.
Bentley, John H., et al. (See Brown, William H. A., assignor.)
Bergman, Sven R., Nahant, Mass., assignor to General Electric Company. Commutator and the like. No. 1,419,803; June 13.
Berkeley Light Corporation. (See Wood, William G., assignor.)
Berry, Earle A., Kansas City, Mo. Battery cover. No. 1,419,208; June 13.
Berry, Robert C., assignor to D. W. Ritter, Indianapolis, Ind. Spark plug. No. 1,419,904; June 13.
Berwald, William, Babbitt, Minn. Mirror support. No. 1,419,804; June 13.
Besnard, Charles H., assignor to J. P. B. Bessonneau, Paris, France. Building construction. No. 1,419,126; June 13.
Bessler, Frank E., Akron, Ohio. Inner tube. No. 1,419,442; June 13.
Bessler, Frank E., Akron, Ohio. Inner tube. No. 1,419,443; June 13.
Bessonneau, Julien P. B. (See Besnard, Charles H., assignor.)
Bethel, Claude, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Gear case. No. 1,419,351; June 13.
Bettison, David C., Omaha, Nebr. Wrench. No. 1,419,659; June 13.
Betton, James M. (See Cary, S. C., and Betton.)
Bevier, Philip H., Brooklyn, N. Y. Hollow building block. No. 1,419,713; June 13.
Beville, Webster J., London, England. Illuminated apparatus for displaying and advertising purposes. No. 1,419,899; June 13.
Bibicos, Theodore, Cleveland, Ohio. Shoe heel. No. 1,419,444; June 13.
Bigler, Albert D., Clearfield, Pa. Brick wall construction. No. 1,419,805; June 13.
Billingsly, Sterling T. (See Nichols, J. S., Billingsly, and Scoggins.)
Billon, Frederic. (See Schneider, J., Hurlimann, and Billon.)
Birch, Chester W., Chicago, Ill. Swing hanger. No. 1,419,806; June 13.
Birtman Electric Company. (See Hardin, R. S., and Wiehle, assignors.)
Blair, Benjamin L., Indianapolis, Ind. Ball projector. No. 1,419,445; June 13.
Blando, Frank, New York, N. Y. Ball projector. No. 1,419,538; June 13.
Blando, Frank, New York, N. Y. Ball projector. No. 1,419,539; June 13.
Bliss, E. W., Company. (See Kruse, Peter, assignor.)
Blocker, Andrew G., St. Louis, Mo. Disk-record container for phonographs. No. 1,419,487; June 13.
Boe, Harry F., assignor to The Vaile-Kimes Company, Dayton, Ohio. Float switch. No. 1,419,352; June 13.
Boehm, Adolph J., deceased, New York, N. Y.; F. A. Boehm, administratrix. Fire door. No. 1,419,807; June 13.
Boehm, Florence A., administratrix. (See Boehm, Adolph J.)
Bogert, Eugene, Ridgewood, N. J. Joint for crossing bars. No. 1,419,446; June 13.
Bolen, Emerson A., assignor to The Northwestern Corporation, Morris, Ill. Stamp-vending machine. No. 1,419,353; June 13.
Boon, Wilfred L., North Attleboro, Mass. T-square. No. 1,419,354; June 13.
Boone, Elsworth E., assignor of one-half to D. D. Neal, Anderson, Ind. Vegetable and fruit counter. No. 1,419,209; June 13.
Booth, Ronald C. (See Chadderton, I., and Booth.)
Bosshard, Theodore, Brooklyn, N. Y. Confection-making apparatus. No. 1,419,808; June 13.
Bowles, Joseph L., Jr., Pittsburgh, Pa. Efficiency and educational chart. No. 1,419,809; June 13.
Bowman, Frederick H., Manchester, and R. L. Aspden; said Bowman assignor of his entire right to R. E. Aspden, Chorley, England. Electrical equipment of motor vehicles and aircraft. No. 1,419,607; June 13.
Bradford, Charles B., Bakersfield, assignor to Critz Manufacturing Company, Santa Maria, Calif. Lubricator. No. 1,419,210; June 13.
Brammer, Ernest, Victoria, British Columbia, Canada. Fireplace. No. 1,419,810; June 13.
Brendza, Steven, Cleveland, Ohio. Corner brace for window screens. No. 1,419,608; June 13.
Brenzinger, Julius, Fairfield, Conn., assignor to The Max Ams Machine Company, New York, N. Y. Side-seam-soldering machine for can bodies. No. 1,419,211; June 13.
Brewer, Joseph H. (See Brewer, Mary G. and J. H.)
Brewer, Mary G. and J. H., Poydras, La. Sanitary toilet-seat cover and pad of toilet paper. No. 1,419,212; June 13.
Brock, Edward L., administrator. (See Brock, Matthias.)
Brock, Matthias, deceased; E. L. Brock, administrator, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Work-positioning mechanism for upper-forming and other machines. No. 1,419,213; June 13.
Bronnert, Emile, Mulhouse, France. Manufacture of viscose silk. No. 1,419,714; June 13.
Brouder, Harry, Worcester, Mass. Trousers. No. 1,419,127; June 13.
Brown, Clarence J. and C. F., assignors, by mesne assignments, to Brown Paper Goods Company, Chicago, Ill. Machine for forming paper receptacles. No. 1,419,355; June 13.
Brown, Claude F. (See Brown, Clarence J. and C. F.)
Brown, George W., Grafton, W. Va. Grain cradle. No. 1,419,609; June 13.
Brown Paper Goods Company. (See Brown, Clarence J. and C. F., assignors.)
Brown, Robert G., George School, Pa., assignor to J. E. Streitelmeier, Cincinnati, Ohio. Phonograph brake. No. 1,419,214; June 13.
Brown, Walter A., Los Angeles, Calif. Separating and topping hydrocarbons from a water mixture. No. 1,419,610; June 13.
Brown, William C., assignor to J. K. Rush, Syracuse, N. Y. Weed attachment for fishing bait. No. 1,419,540; June 13.
Brown, William H. A., assignor of one-half to H. G. Clark and one-half to J. H. Bentley, Chicago, Ill. Window-cleaning device. No. 1,419,356; June 13.
Brunswick-Balke-Collender Company. (See Thomson, P., and Whelan, assignors.)
Buchere, Herbert C., Charleston, S. C. Refrigerating apparatus. No. 1,419,215; June 13.
Buckels, William L., Fort Payne, Ala. Automobile spring wheel. No. 1,419,811; June 13.
Buckeye Traction Ditcher Company. (See Krupp, Leo A., assignor.)
Buckwalter, Tracy V., assignor to Timken Roller Bearing Company, Canton, Ohio. Process and apparatus for making bearing rolls. No. 1,419,611; June 13.
Budig, Friedrich W., Falkenberg-Grunau, near Berlin, Germany. Flying machine. No. 1,419,447; June 13.
Bullock, Charles F. (See Mapelsden, H. H., and Bullock.)
Burckhardt, Rodolphe W., Mulhouse, France. Device for effecting the mixing of gaseous strata. No. 1,419,216; June 13.
Burnett, Alexander S., Reddish, England. Machine tool. No. 1,419,812; June 13.
Burnett, Elizabeth L., Boston, Mass. Carbon paper. No. 1,419,217; June 13.
Burns, Walter W., Greenport, N. Y., assignor to H. B. Johnston, Seattle, Wash. Piston and piston ring. No. 1,419,715; June 13.
Burns, Walter W., Greenport, N. Y., assignor to H. B. Johnston, Seattle, Wash. Piston and piston ring. No. 1,419,813; June 13.
Burrell, Albert. (See Burrell, Oliver, assignor.)
Burrell, Oliver, assignor of one-half to A. Burrell, Benson Mines, N. Y. Steel railway tie. No. 1,419,814; June 13.
Burstall, William H., assignor of one-half to W. Adamson, Oxnard, Calif. Circle brace. No. 1,419,541; June 13.
Bush, George W., Covington, Ky. Means employed in collection systems. No. 1,419,815; June 13.
Cadillac Motor Car Company. (See White, D'Orsay M., assignor.)
Cafiero, Michael J. (See Olsen, Harvey, assignor.)
Call, Ralph H., Manchester, N. H. Milk-bottle holder. No. 1,419,488; June 13.
Cameron, John M., Dorchester, Va. Mine-car truck. No. 1,419,218; June 13.
Cameron, Neil M., Shoal Lake, Manitoba, Canada. Attachment for bundle carriers. No. 1,419,542; June 13.
Cammen, Leon, New York, N. Y., assignor to General Electric Company. Multiple-filament incandescent lamp. No. 1,419,816; June 13.

Campbell, Walter T., St. Louis, Mo. Tire lock. (Reissue.) No. 15,380; June 13.
Canda, Ferdinand M., New York, N. Y. Ball-rolling apparatus. No. 1,419,817; June 13.
Caracristi, Virginius Z., Bronxville, N. Y. Valve cut-off and speed indicator. No. 1,419,612; June 13.
Carboni Akt.-Ges. (See Pape, Max C. A. H., assignor.)
Card, Charles S., Denver, Colo. Combined drawbar and axle-supporting apparatus for car trucks. No. 1,419,716; June 13.
Carlucci, Rocco A., West New York, N. J. Banjo. No. 1,419,818; June 13.
Carr, Elza B. (See Thompson, E. B., and Carr.)
Carr, George J., et al., trustees. (See Heslewood, W. R., and Mocine, assignors.)
Carr-Lowrey Glass Company. (See Newell, Louis B., assignor.)
Carris, Edward C., assignor to Carris Manufacturing Company, Washington, Iowa. Button-blank-grinding machine. No. 1,419,489. June 13.
Carris Manufacturing Company. (See Carris, Edward C., assignor.)
Carroll, Carl H., Arlington, Mass. Closed pocket for panels and forming same. No. 1,419,490; June 13.
Carroll, James H. Charlotte, N. C. Bottled-drink-vending machine. No. 1,419,219; June 13.
Carroll, James H., Charlotte, N. C. Bottled-drink-vending machine. No. 1,419,220; June 13.
Carter, Charles E., Gillespie, Ill. Operating mechanism for mine doors. No. 1,419,357; June 13.
Cartier, Inc. (See Genaille, Alexandre, assignor.)
Carver, Fred S., Newark, N. J. Compression pump. No. 1,419,221; June 13.
Cary Manufacturing Co. (See Cary, S. C., and Betton, assignors.)
Cary, Spencer C., Brooklyn, and J. M. Betton, Mount Vernon, assignors to Cary Manufacturing Co., Brooklyn, N. Y. Means for cleaning metals preparatory to welding. No. 1,419,717; June 13.
Central Oil & Gas Stove Co. (See White, Fred E., assignor.)
Chadderton, Irvine, Ashton-under-Lyne, and R. C. Booth, Failsworth, England. Box spanner and the like. No. 1,419,222; June 13.
Chapman, Charles E., assignor of one-half to J. Goodfellow, Fort Edward, N. Y. Apparatus for burning hydrocarbon oils. No. 1,419,223; June 13.
Charles, B. R. (See Charles, Phyllis E., assignor.)
Charles, Phyllis E., Victoryville, assignor to B. R. Charles, Los Angeles, Calif. Electric heating fabric. No. 1,419,613; June 13.
Chase Companies, The. (See Recker, Adolph C., assignor.)
Chemical Equipment Company. (See La Bour, Harry E., assignor.)
Chertok, Joseph, New York, N. Y., assignor to Chertok Safety Appliance Company. Guard for sewing-machine needles. No. 1,419,718; June 13.
Chertok Safety Appliance Company. (See Chertok, Joseph, assignor.)
Chiddix, Albert W., Lamesa, Tex. Saw. No. 1,419,819; June 13.
Christoph, Emil A., assignor to King Lock Company, Chicago, Ill. Padlock. No. 1,419,358; June 13.
Christoph, Emil A., assignor to King Lock Company, Chicago, Ill. Padlock mechanism. No. 1,419,359; June 13.
Cincinnati Bickford Tool Company, The. See Klausmeyer, David C., assignor.)
Clade, Robert, Newark, N. J. Fan. No. 1,419,719; June 13.
Clark, Henry G., et al. (See Brown, William H. A., assignor.)
Clarkson, James W., and C. A. Dimler, Washington, D. C. Apparatus for protecting banks and the like. No. 1,419,491; June 13.
Clergy, Louis J., assignor to Liberty Manufacturing Company, Belt, Mont. Automobile bed. No. 1,419,820; June 13.
Cleveland Folding Machine Company. (See Hitchcock, Reuben, assignor.)
Clifford, Frank, Milwaukee, Wis. Cigarette roller. No. 1,419,224; June 13.
Clouser, Clarence J., Columbus, Ohio. Swing. No. 1,419,660; June 13.
Coburn, Clarence W., San Francisco, Calif. Shock absorber. No. 1,419,614; June 13.
Coda, Christopher F., Detroit, Mich. Cushion seat. No. 1,419,492; June 13.
Coe, Charles T., Kearny, N. J. Lubricating device. No. 1,419,821; June 13.
Cohen, Morris, Chicago, Ill. Mallet. No. 1,419,615; June 13.
Colebrook, William, Durban, Natal, South Africa. Water heater. No. 1,419,225; June 13.
Colson, Thomas, Chicago, assignor to C. Dawson, Belvidere, Ill. Cartridge fuse. No. 1,419,226; June 13.
Computing Scale Company, The. (See Freed, Edward G., assignor.)
Cone, Lee E. H., Syracuse, N. Y., assignor to Dow Chemical Company, Midland, Mich. Making phenylglycine bodies. No. 1,419,720; June 13.
Contant, William A. (See Pease, Walter M., assignor.)
Continuous Centrifugal Separators Limited. (See Mauss, Wilhelm, assignor.)
Coo, Thomas John, Toronto, Ontario, Canada. Automobile lock. No. 1,419,227; June 13.
Corbe, Joseph, assignor to Robert H. Simpers, Washington, D. C. Illuminating device for sewing machines. No. 1,418,822; June 13.
Cornell, Enoch W. (See Wright, D. C., and Cornell.)
Corona Typewriter Company. (See Armstrong, F. H., and Harmon, assignors.)
Corona Typewriter Company. (See Armstrong, Frank H., assignor.)
Coughlin, Gerald J., Watertown, N. Y. Display stand. No. 1,419,616; June 13.
Coulson, John, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrolytic light source. No. 1,419,360; June 13.
Cox Brass Manufacturing Company. (See Cox, William G., assignor.)
Cox, John L., Philadelphia, Pa. Armor-piercing projectile. No. 1,419,361; June 13.
Cox, Robert N., Waukegan, Ill. Milk-bottle-cap remover. No. 1,419,823; June 13.
Cox, William G., Cleveland, Ohio, assignor to Cox Brass Manufacturing Company, Albany, N. Y. Bumper attachment for vehicle suspension springs. No. 1,419,228; June 13.
Craib, Frederick, and J. Barnett, Martinez, Calif. Mop wringer. No. 1,419,543; June 13.
Crane Company. (See Forsberg, Oscar A., assignor.)
Creighton, William H. P., New Orleans, La. Means for controlling the level of liquids in evaporating apparatus. No. 1,419,824; June 13.
Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,419,493; June 13.
Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,419,494; June 13.
Critchlow, Edward C., Orcutt, Calif. Dustproof lubrication device. No. 1,419,229; June 13.
Critz Manufacturing Company. (See Bradford, Charles B., assignor.)
Crompton, Edwin, and C. L. Crooks, Pueblo, Colo. Latch. No. 1,419,230; June 13.
Crooks, Charles L. (See Crompton, E., and Crooks.)
Crossley, Kenneth I., and W. L. Webb, Worcester, England. Oil-fuel-injection device for internal-combustion engines. No. 1,419,231; June 13.
Cunliffe, Edward T., Audubon, N. J., assignor to Sun Shipbuilding Company, Chester, Pa. Steam-engine valve mechanism. No. 1,419,362; June 13.
Curtin, David F., Chicago, Ill. Blank for paper cups. (Reissue.) No. 15,381; June 13.
Curtis, Lewis E., Warren, Ohio, assignor to Milwaukee Corrugating Company, Greenfield, Wis. Plaster terminal. No. 1,419,232; June 13.
Cutler-Hammer Mfg. Co., The. (See Stevens, Harold W., assignor.)
Cuyahoga Parts Company, The. (See Bellar, Charles J., assignor.)
Davidovitz, Sol, et al. (See Solomon, Charles, assignor.)
Davidson, Joshua E., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,419,617; June 13.
Davis, Cecil E., Montezuma, Kans. Boring head. No. 1,419,448; June 13.
Dawson, Charles. (See Colson, Thomas, assignor.)
Dean, William W., Wilmette, Ill., assignor to Efficiency Electric Corporation, New York, N. Y. Electric governing system. No. 1,419,233; June 13.
De Benedetti, Francesco, Turin, Italy. Screw jack. No. 1,419,544; June 13.
De Dominicis, Vincent, and F. A. Reip, East Orange, N. J. Automobile traffic signal. No. 1,419,661; June 13.
Deere and Company. (See Wilson, Frederick D., assignor.)
Deere and Company. (See Wilson, F. D., and Livesay, assignors.)
Delano, James K., New York, N. Y. Starting and lighting system for motor vehicles. No. 1,419,825; June 13.
Dell, John N., San Francisco, Calif. Soap holder, strainer, and scoop. No. 1,419,545; June 13.
Deming, William M., Fairview, Mont. Double capsule. No. 1,419,618; June 13.
De Roo, John C., Cincinnati, Ohio. Mop. No. 1,419,234; June 13.
Desobry, Charles W., Indianapolis, Ind. Bottle-filling machine. No. 1,419,235; June 13.
Detroit Pressed Steel Company. (See Putnam, Alden L., assignor.)
Detroit Range Boiler & Steel Barrel Company. (See Wacker, Frederick G., assignor.)
Deutsche Werke Aktiengesellschaft. (See Häcker, Fritz, assignor.)
Dewees, Herbert A. (See Gentry, B. C., and Hoffman, assignors.)
Dexter Company, The. (See George, William H., assignor.)
Dickelman, Lizzie H., Forest, Ohio. Door and door frame for grain bins. No. 1,419,236; June 13.
Di Como, Charles, assignor of one-half to G. Meir, Rahway, N. J. Rewinding apparatus. No. 1,419,826; June 13.
Diederichs, Carl A., Pittsburgh, Pa. Lighting fixture. No. 1,419,721; June 13.
Dietrich, Jack. (See Benedict, Theobald, assignor.)

Dietz, William, Forest Park, Ill. Faucet. No. 1,419,237; June 13.
Dimler, Christopher A. (See Clarkson, J. W., and Dimler.)
Dittmar, Ferdinand C., Davenport, Iowa. Cultivator. No. 1,419,722; June 13.
Doherty, Henry L. (See Laird, Wilbur G., assignor.)
Donaldson, Edwin, Brooklyn, N. Y. Labeling machine. No. 1,419,546; June 13.
Dornier, Claudius, assignor to Firm Luftschiffbau Zeppelin Gesellschaft mit beschrankter Haftung, Friedrichshafen, Germany. Construction member. No. 1,419,827; June 13.
Dornier, Claudius, Friedrichshafen, Germany. Tubular hollow body. No. 1,419,828; June 13.
Dow Chemical Company. (See Cone, Lee E. H., assignor.)
Dowd, James F., Newport, R. I. Bottle top. No. 1,419,829; June 13.
Drake, James C., Rochester, Minn., assignor to Sears, Roebuck and Company, New York, N. Y. Sound box for talking machines. No. 1,419,238; June 13.
Driscoll, Leonard P. (See Waterer, Harold C., assignor.)
Du Brie, Stanley R., Detroit, Mich. Air heater and moisture supply for carburetors. No. 1,419,239; June 13.
Dudas, Andrew. (See Szucs, Stephen, assignor.)
Duffy, James P. B. (See Murphy, Thomas J., assignor.)
Dull, Curtis E., Ohio City, Ohio. Headlight. No. 1,419,449; June 13.
Dunbar, Harry S., Cleveland, Ohio. Sash fastener. No. 1,419,128; June 13.
Dunham, Fred, Commerce, Okla. Sludge-table block. No. 1,419,830; June 13.
Dunham, George W., New York, N. Y., assignor to Graham Brothers, Evansville, Ind. Tractor gearing. No. 1,419,240; June 13.
Dunlop Rubber Company, Limited, The. (See Worthington, John V., assignor.)
Dunn, Robert. (See Sprock, S. J., and Dunn.)
Durkee, Dwight M., Rockford, assignor to Free Sewing Machine Company, Chicago, Ill. Controller for electrically-driven sewing machines. No. 1,419,723; June 13.
Earle, Ethan H., Pomona, assignor of one-half to G. R. E. Milligan, Los Angeles, Calif. Aeroplane. No. 1,419,363; June 13.
Eberson-Topp, Inc. (See Topp, James, assignor.)
Eckes, Frances M., Jersey City, N. J. Hospital chart. No. 1,419,831; June 13.
Edwards, Edwin L., assignor to Edwards X-Ray Corporation, Indianapolis, Ind. X-ray cabinet. No. 1,419,241; June 13.
Edwards, William R., and J. Lukes, assignors to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Machine for sizing and punching rims and bands. No. 1,419,619; June 13.
Edwards X-Ray Corporation. (See Edwards, Edwin L., assignor.)
Efficiency Electric Corporation. (See Dean, William W., assignor.)
Egerton, Henry C., Ridgewood, N. J. Harness. No. 1,419,450; June 13.
Ehret, Cornelius D., Philadelphia, Pa. Electronic apparatus. No. 1,419,547; June 13.
Electric Smelting & Aluminum Co., The. (See Guernsey, Fay H., assignor.)
Englander Spring Bed Company. (See Lawson, William E., assignor.)
Enyeart, Martin P., Girard, Ohio. Trolley harp. No. 1,419,365; June 13.
Erdle, Reiner W., New York, N. Y., assignor to Radium Dial Company, Pittsburgh, Pa. Apparatus for facilitating the application of luminous material. No. 1,419,662; June 13.
Erdle, Reiner W., New York, N. Y., assignor to Radium Dial Company, Pittsburgh, Pa. Stenciling device. No. 1,419,663; June 13.
Erdwins, John C. (See Erdwins, William and J. C.)
Erdwins, William and J. C., Harrisonville, Mo. Resilient wheel. No. 1,419,242; June 13.
Erickson, Charles A., Chicago, Ill. Sales-check holder and notching device. No. 1,419,620; June 13.
Erickson, Charles A., Chicago, Ill. Sales-check holder and punch. No. 1,419,621; June 13.
Esselmann, Louis H., assignor of one-half to J. Shalhoub, St. Louis, Mo. Pastry-cone machine. No. 1,419,622; June 13.
Eustice, Alfred L., Chicago, Ill. Inclosed fuse. No. 1,419,724; June 13.
Extrom, Victor E., Fulda, Minn. Winding device. No. 1,419,832; June 13.
Faber, Henry B., and W. H. Harding, Jr., assignors to Atomized Products Corporation, New York, N. Y. Dessicator. No. 1,419,664; June 13.
Fator, Charles D., San Antonio, Tex. Oil-well pump. No. 1,419,495; June 13.
Fay, Charles H., Newark, N. J. Insert for cement or similar floors. No. 1,419,548; June 13.
Fearnow, Edgar C., Capitol Heights, Md. Container for transporting live fish. No. 1,419,549; June 13.
Fedderwitz, Diedrich B. (See Goebel, Boyd W., assignor.)
Fee, Charles M., Fulton, Mo. Attachment for pug mills. No. 1,419,833; June 13.
Fellows, Daniel W., Los Angeles, Calif. Adjustable tread stairs. No. 1,419,834; June 13.
Fels, Walter T., assignor of one-half to J. Ferber, Mount Vernon, N. Y. Plastic composition. No. 1,419,665; June 13.
Ferber, Jacob. (See Fels, Walter T., assignor.)
Ferch, Fred F., Joplin, Mo. Adjustable stove leg. No. 1,419,835; June 13.
Fessenden, De Witt H., New York, N. Y. Hollow building block. No. 1,419,623; June 13.
Fial, Wojciech, Harvey, W. Va., assignor of one-half to E. Nicolussi, Glendire, Mont. Vehicle stopping device. No. 1,419,366; June 13.
Field, Michael B., assignor to Kelvin Bottomley & Baird Limited, Glasgow, Scotland. Mariner's compass. No. 1,419,836; June 13.
Finckh, Fritz, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Dumping receptacle. No. 1,419,966; June 13.
Fischer, Frederick C., Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Bending jig. No. 1,419,550; June 13.
Fisher, Edwin H., Pittsburgh, Pa., assignor to Scientific Materials Company. Absorption wedge. No. 1,419,725; June 13.
Fisk Rubber Company, The. (See Marquette, Melvon A., assignor.)
Fitch, Benjamin F., Evanston, Ill., assignor to The Motor Terminals Company, Cleveland, Ohio. Traveling crane. No. 1,419,129; June 13.
Fixter, Edward, assignor of one-fourth to M. L. Starkey, Wilmington, N. C. Rail joint. No. 1,419,726; June 13.
Flachskampf, Louis, Lost Creek #2, Pa. Micrometer calipers. No. 1,419,837; June 13.
Fleischman, Joseph, New York, N. Y. Telephone accessory. No. 1,419,551; June 13.
Fling, Walter T., Kansas City, Mo. Water-heating range. No. 1,419,367; June 13.
Flintjer, Daniel J. (See Reasoner, I. A., and Flintjer.)
Flintkote Company, The. (See Overbury, Frederick C., assignor.)
Flying Eagle Company, Inc. (See Sieveking, Martinus, assignor.)
Foley, Dollner S. (See Osnes, J., Halverson, and Foley.)
Foote, Charles E., assignor to The Foote Company, Nunda, N. Y. Batch meter for concrete mixers and the like. No. 1,419,451; June 13.
Foote Company, The. (See Foote, Charles E., assignor.)
Foote, John B., Oak Park, Ill. Variable speed driving mechanism for tractors. No. 1,419,243; June 13.
Forsberg, Oscar A., assignor to Crane Company, Chicago, Ill. Sand-blast apparatus. No. 1,419,130; June 13.
Forster, Rowland, Dauphin, Manitoba, Canada. Bag holder. No. 1,419,244; June 13.
Fortier, Charles L., assignor to Johnson Service Company, Milwaukee, Wis. Time-controlled thermostat or the like. No. 1,419,667; June 13.
Foss, John E., Jamaica Plain, Mass. Holder for edge-setting tools. No. 1,419,496; June 13.
Foster, Peter W., assignor to Kellogg Toasted Corn Flake Company, Battle Creek, Mich. Oven for toasting cereal foods. No. 1,419,131; June 13.
Franks, John L., Winters, Tex. Insect destroyer. No. 1,419,900; June 13.
Fraser, Arthur M., Westboro, Mass. Lathe dog. No. 1,419,452; June 13.
Frazer, Ernest, Portage Lake, Me. Anvil horseshoe vise. No. 1,419,132; June 13.
Free Sewing Machine Company. (See Durkee, Dwight M., assignor.)
Freed, Edward G., assignor to The Computing Scale Company, Dayton, Ohio. Meat-slicing machine. No. 1,419,552; June 13.
Freed, Eva S., et al. (See Leitch, James T., assignor.)
Freed, Tilghman A., et al. (See Leitch, James T., assignor.)
Freeze, John A., Sayreville, N. J. Chair attachment for beds. No. 1,419,245; June 13.
Fritz, Jacob S., Zanesville, Ohio. Tire patch. No. 1,419,453; June 13.
Fried. Krupp Aktiengesellschaft. (See Finckh, Fritz, assignor.)
Fried. Krupp Aktiengesellschaft. (See Martin, Friedrich, assignor.)
Fuller, Charles I., Rochester, N. Y. Folding music holder. No. 1,419,668; June 13.
Fullips, George A., Milwaukee, Wis. Mechanical movement. No. 1,419,368; June 13.
Furr, Turner C. (See Arcaro, J. G., and Furr.)
Gaines, William H., Estill Springs, Tenn. Shock absorber. No. 1,419,838; June 13.
Gale, Francis G., Waterville, Quebec, Canada. Mattress frame. No. 1,419,727; June 13.
Gallagher, George D., Washington, D. C., assignor to Winchester Repeating Arms Company, New Haven, Conn. Handlamp switch. No. 1,419,728; June 13.
Gallagher, George D., Washington, D. C., assignor to Winchester Repeating Arms Company, New Haven, Conn. Handlamp switch. No. 1,419,729; June 13.
Gallagher, Richard D., Jr., Flatbush, N. Y. Draft gear for railway cars. No. 1,419,669; June 13.
Galloway, William M., Vera, Tex. Compressed-air feed for automobiles. No. 1,419,553; June 13.
Ganse, Franklin W., Brookline, Mass. Game apparatus. No. 1,419,554; June 13.
Garon, Israel, Duluth, Minn. Garment-drying frame. No. 1,419,133; June 13.

Garwood, Spencer, East Liberty, Ohio. Driving mechanism. No. 1,419,555; June 13.
Gase, Eugene, assignor to Baker-Perkins Manufacturing Corporation, Saginaw, Mich. Gate control for flour bins. No. 1,419,556; June 13.
Gase, Eugene, assignor to Baker-Perkins Manufacturing Corporation, Saginaw, Mich. Automatic weighing machine. No. 1,419,557; June 13.
Gaston, Esprit L., Lyon, France. Manufacture of zinc cups intended for dry cells. No. 1,419,839; June 13.
Gathmann, Emil, Baltimore, Md. Ingot mold. No. 1,419,454; June 13.
Gauer, William, assignor to Frank Krementz Company, Newark, N. J. Eyeglass-releasing device. No. 1,419,369; June 13.
Gee, James E., London, England. Thermostat. No. 1,419,246; June 13.
Gehrke, Emil A. (See Gehrke, Ewald C., and E. A.)
Gehrke, Ewald C. and E. A., Chelan, Wash. Cold-weather starter for motor-driven vehicles. No. 1,419,840; June 13.
Geisendorfer, John F., Sacramento, Calif. Cooker. No. 1,419,670; June 13.
Genaille, Alexandre, assignor to Cartier, Inc., New York, N. Y. Bracelet. No. 1,419,370; June 13.
General Electric Company. (See Alexanderson, Ernst F. W., assignor.)
General Electric Company. (See Bergman, Sven R., assignor.)
General Electric Company. (See Cammen, Leon, assignor.)
General Electric Company. (See McLain, Robert H., assignor.)
General Electric Company. (See Macloskie, G., and Ives, assignors.)
General Electric Company. (See Macmillan, Campbell, assignor.)
General Electric Company. (See Mapelsden, H. H., and Bullock, assignors.)
General Electric Company. (See Thompson, Louis W., assignor.)
General Fuel Apparatus Corporation. (See Hoffman, William M., assignor.)
Gennette, Philip, Aurora, Kans. Motor fan. No. 1,419,841; June 13.
Gentine, Howard L., assignor to American Atomized Fuel Company, Shelbyville, Ill. Pulverized-fuel feeder and mixer. No. 1,419,730; June 13.
Gentry, Bert C., and G. R. Hoffman; said Hoffman assignor to H. A. Deweez, St. Louis, Mo. Attachment for planetary transmissions. No. 1,419,371; June 13.
George, William H., assignor to The Dexter Company, Fairfield, Iowa. Gearing. No. 1,419,247; June 13.
Gerson, Morris, Duluth, Minn. Apparatus for making receptacles. No. 1,419,248; June 13.
Getsie, George. (See Kalma, Steve, assignor.)
Gidmark, Barney, Cloquet, Minn. Convertible hand ax. No. 1,419,249; June 13.
Gingras, Edward F., Buffalo, N. Y. Making belting. No 1,419,842; June 13.
Glidden, Harvey L., Needham, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe rack and making it. No. 1,419,250; June 13.
Godin, George J., Rochester, N. H. Wheel attachment for sleighs or sleds. No. 1,419,558; June 18.
Goebel, Boyd W., Madison, N. C., assignor of two-thirds to T. B. Fedderwitz, Savannah, Ga. Bed. No. 1,419,624; June 13.
Goff, Harold W., assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic device. No. 1,419,559; June 13.
Goldberg, Paul, Berlin-Treptow, P. Onnertz, Berlin-Wilmersdorf, and A. Peters, assignors to Actien Gesellschaft fur Anilin Fabrikation, Berlin, Germany. Protecting animal fibers from the injurious effect of alkaline liquids. No. 1,419,497; June 13.
Goldstein, Isadore, New York, N. Y. Tonometer. No. 1,419,134; June 13.
Gong Bell Manufacturing Company. (See Watrous, Clifford M., assignor.)
Good Invention Co. (See Good, John, assignor.) (Reissue.)
Good, John, Garden City, assignor to Good Inventions Co., Brooklyn, N. Y. Internal-combustion-engine valve (Reissue.) No. 15,382; June 13.
Goodbar, Nathan H., Los Angeles, Calif. Lawn sprinkler. No. 1,419,843; June 13.
Goodell, George H., St. Paul, Minn. Movable counterbalance. No. 1,419,372; June 13.
Goodfellow, Joseph. (See Chapman, Charles E., assignor.)
Goodman, Philip L., Chicago, Ill. Garbage reducer and distillator. No. 1,419,135; June 13.
Gordon, Fannie B. (See Gordon, M. Martin, and F. B.)
Gordon, M. Martin, and F. B., Chicago, Ill. Paper toilet box. No. 1,419,671; June 13.
Gore, Thomas, Brooklyn, N. Y. Cable. No. 1,419,560; June 13.
Gould Coupler Company. (See Creveling, John L., assignor.)
Graham Brothers. (See Dunham, George W., assignor.)
Graham Paper Company. (See Kniep, William H., assignor.)
Grant, Alexander D., San Jose, Calif. Sanitary flush bowl. No. 1,419,498; June 13.
Gray, Bertram P., Sutton Coldfield, England. Antislip device for horseshoes. No. 1,419,251; June 13.
Gray, George F., Mahwah, N. J. Mast coupling. No. 1,419,252; June 13.
Gray, Neil, Dayton, Ohio. Magnetic revolution counter. No. 1,419,253; June 13.
Grayson, George W. (See Russell, I. N., and Grayson.)
Grebe, John J., Cleveland, Ohio. Mixing valve. No. 1,419,254; June 13.
Green, Charles F., Defiance, and H. W. Lindsey, Jr., assignors to Industrial Research Corporation, Toledo, Ohio. Fuel-reserve-supply system. No. 1,419,373; June 13.
Grzesik, Marcin. (See Kosman, J., and Grzesik.)
Guelbaum, David, Syracuse, N. Y. Automatic mixing and proportioning device or valve. No. 1,419,455; June 13.
Guernsey, Fay H., Buffalo, assignor to The Electric Smelting & Aluminum Co., Lockport, N. Y. Detergent compound and making the same. No. 1,419,625; June 13.
Gunkel, Harry H., Chicago, Ill. Measuring device. No. 1,419,374; June 13.
Guy, Albert E., U. S. Army. Device for generating high pressure. No. 1,419,844; June 13.
Guy, Albert E., U. S. Army. Treatment by pressure of cast and forged steel tubes. No. 1,419,845; June 13.
Häcker, Fritz, Spandau, assignor to Deutsche Werke Aktiengesellschaft, Berlin, Germany. Agricultural rake. No. 1,419,255; June 13.
Hall, George F., Providence, R. I. Cigarette box. No. 1,419,375; June 13.
Hall Printing Press Company, et al. (See White, Joseph, assignor.)
Hall, William A., and O. Robinson, Augusta, Kans.; said Robinson assignor to said Hall. Display cabinet. No. 1,419,846; June 13.
Halverson, Clarence. (See Osnes, J., Halverson, and Foley.)
Hamilton, Charles L., Philadelphia, Pa. Machine for pressing fibers of wood pulp. No. 1,419,847; June 13.
Hammond, John H., Jr., Gloucester, Mass. Electric-light display system. No. 1,419,256; June 13.
Hammond, John H., Jr., Gloucester, Mass. Wireless control apparatus. No. 1,419,376; June 13.
Hammond, John H., Jr., Gloucester, Mass. Radiodynamic occulting system. No. 1,419,377; June 13.
Hanlon, George J., Long Island City, assignor of one-half to J. A. Murray, Flushing, N. Y. Clamp and brace for stage wings. No. 1,419,848; June 13.
Hanna, Richard W., Richmond, assignor to Standard Oil Company of California, San Francisco, Calif. Continuous production of low-boiling-point hydrocarbons from petroleum oils. No. 1,419,378; June 13.
Hardin, Ray S., and E. W. Wiehle, assignors to Birtman Electric Company, Chicago, Ill. Centrifugal switch. No. 1,419,626; June 13.
Harding, William H., Jr. (See Faber, H. B., and Harding.)
Harlow, John B., Upper Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Switching system. No. 1,419,561; June 13.
Harmon, Edwin L. (See Armstrong, F. H., and Harmon, assignors.)
Harpman, Charles A. (See Sharp, Robert C., assignor.)
Harrigan, Thomas M., Woodstock, Vt. Pen and pencil grip. No. 1,419,257; June 13.
Harrington, William F., Toledo, Ohio. Clutch. No. 1,419,849; June 13.
Harris, Thomas R. (See Plost, Isaac, assignor.)
Hart, Thomas H., Boston, Mass. Cover for receptacles. No. 1,419,850; June 13.
Hartley, Ralph V. L., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Modulator or detector. No. 1,419,562; June 13.
Hartman, Carl R., Mount Vernon, N. Y. Vegetable cutter and crusher. No. 1,419,499; June 13.
Hartman, Louis H., assignor to The Valve Bag Company, Toledo, Ohio. Bag-filling machine. No. 1,419,627; June 13.
Hathaway, Edgar F., Dorchester, Mass., assignor to Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Stopping mechanism for textile machinery. No. 1,419,731; June 13.
Hauck, Bernard K., Cincinnati, Ohio, assignor to F. D. Spotswood, Lexington, Ky. Advertising novelty. No. 1,419,136; June 13.
Haugwitz, Rudolf, Friedrichshagen, near Berlin, assignor to Actien Gesellschaft fur Anilin Fabrikation, Berlin, Germany. Orthooxyazo dye. No. 1,419,500; June 13.
Head, Robert, Yonkers, N. Y., assignor to The Aeolian Company. Apparatus for making phonograph records. No. 1,419,851; June 13.
Helmer, Glen W., Ilion, N. Y. Valve-grinding tool. No. 1,419,628; June 13.
Hempe, Harry. (See Molloy, J. T., and Hempe.)
Henninger, Ludwig, Durlach, Germany, assignor to Badische Maschinenfabrik & Eisengiesserei vorm. G. Sebold und Sebold & Neff, Durlach, Baden, Germany. Collecting apparatus for automatic matchmaking machine. No. 1,419,732; June 13
Herzberg, Wilhelm, Berlin-Wilmersdorf, and O. Scharfenberg, Berlin-Schoneberg, assignors to Actien Gesellschaft fur Anilin Fabrikation, Berlin, Germany. Orthooxyazo dye. No 1,419,501; June 13

Herzberg, Wilhelm, Berlin-Wilmersdorf, and G. Hoppe, Berlin-Treptow, assignors to Actien Gesellschaft fur Anilin Fabrikation, Berlin, Germany. Dyes. No. 1,419,502; June 13.
Heslewood, William R., and H. F. Mocine, Oakland, Calif., assignors to H. F. Mocine, W. R. Heslewood, G. J. Carr, and E. B. Kimball, trustees of the M. and H. Piston Ring Company. Piston ring. No. 1,419,672; June 13.
Heslewood, William R., et al., trustees. (See Heslewood, W. R., and Mocine, assignors.)
Hewes & Potter. (See Hewes, James A., assignor.)
Hewes, James A., Melrose, assignor to Hewes & Potter, Boston, Mass. Men's neckwear. No. 1,419,137; June 13.
Hill, N. N., Brass Co., The. (See Kidney, Josiah R., assignor.)
Hitchcock, Harry W., New York, N. Y., assignor to American Telephone and Telegraph Company. Electrical measuring apparatus. No. 1,419,673; June 13.
Hitchcock, Harry W., New York, N. Y., assignor to American Telephone and Telegraph Company. Electrical measuring apparatus. No. 1,419,674; June 13.
Hitchcock, Reuben, assignor to The Cleveland Folding Machine Company, Cleveland, Ohio. Sheet-feeding mechanism. No. 1,419,733; June 13.
Hixon, Hiram W., New York, N. Y. Dam and constructing same. No. 1,419,852; June 13.
Hochstetter, Frederick W., assignor of one-half to W. I. Ohmer, Dayton, Ohio. Translucent medium for use in photographic arts. No. 1,419,379; June 13.
Hoffman, Glenn R. (See Gentry, B. C., and Hoffman.)
Hoffman, William M., assignor to General Fuel Apparatus Corporation, Buffalo, N. Y. Fuel-oil burner. No. 1,419,380; June 13.
Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Typewriter escapement mechanism. No. 1,419,138; June 13.
Hommel, Oscar, Pittsburgh, Pa. Coating material. No. 1,419,258; June 13.
Hood, George D., Toronto, Ontario, Canada. Fuel cabinet. No. 1,419,259; June 13.
Hoppe, Gerhard. (See Herzberg, W., and Hoppe.)
Hoppe, Oscar, assignor to R. A. Kempin, Rorschach, Switzerland. Milling machine. No. 1,419,853; June 13.
Horn, Albert, St. Louis, Mo. Apparatus for repairing and testing radiators. No. 1,419,260; June 13.
Horning, William L., Davenport, Iowa. Device for use in climbing poles. No. 1,419,563; June 13.
Hosking, Richard T., Saginaw, Mich., assignor to Shakeproof Screw & Nut Lock Company, Chicago, Ill. Nut lock. No. 1,419,564; June 13.
Hostetter, Frederick, assignor of one-half to G. Petterson, Brooklyn, N. Y. Egg protector. No. 1,419,905; June 13.
Houck, William A., Reading, Pa. Moistening means for cop mountings. No. 1,419,734; June 13.
House, Ernest W., Birmingham, Ala. Vehicle signal. No. 1,419,854; June 13.
Howard, Dudley B., Washington, D. C. Aircraft. No. 1,419,261; June 13.
Howg, Edwin M., Lennox, S. Dak. Latch for chains. No. 1,419,565; June 13.
Humphreys, Omar R. (See Humphreys, Walter G., and O. R.)
Humphreys, Walter G. and O. R., Omaha, Nebr. Trench-digging machine. No. 1,419,381; June 13.
Humphreys, Walter G. and O. R., Omaha, Nebr. Bucket-chain excavator. No. 1,419,382; June 13.
Humphreys, Walter G. and O. R., Omaha, Nebr. Power-transmission gearing. No. 1,419,383; June 13.
Hunt, Floyd D., Burlington, Vt. Storm window. No. 1,419,384; June 13.
Hunter, Harrison A., Mankato, Kans. Traction tread for wheels. No. 1,419,503; June 13.
Hunter, Robert L., Norfolk, Va. Continuous-pressure cooker. No. 1,419,139; June 13.
Hurlimann, Ernst. (See Schneider, J., Hurlimann, and Billon.)
Hutchinson, Hubert. (See Le Fevre, G. A., and Hutchinson.)
Hutchinson, Richard A., Kenilworth, N. J. Needle-pointing machine. No. 1,419,140; June 13.
Huwyler, Lyberat, Goldau, Switzerland. Railway baggage or general-goods car. No. 1,419,675; June 13.
Hydraulic Pressed Steel Company, The. (See Edwards, W. R., and Lukes, assignors.)
Hynes, John J. (See O'Neill, C. C., and Hynes.)
Ideco. (See Maurer, Henry E., Jr., assignor.)
Iler, Franklin M., Cleveland, Ohio. Molding machine. No. 1,419,566; June 13.
Imhoff, August J., Newark, N. J., assignor to J. S. Mundy Hoisting Engine Co. Swinging drum for hoisting engines. No. 1,419,855; June 13.
Industrial Research Corporation. (See Green, C. F., and Lindsey, assignors.)
Ingalls, Joseph B., Chicago, Ill. Cigarette holder. No. 1,419,141; June 13.
International Harvester Company. (See Johnston, Edward A., assignor.)
International Harvester Company. (See Johnston, Roy B., assignor.)
International Harvester Company. (See Moxey, James A., assignor.)
International Harvester Company. (See Pearson, Charles, assignor.)
Ives, Charles A. (See Macloskie, G., and Ives.)
Izzo, Bonaventuro, Paterson, N. J. Railway gate. No. 1,419,856; June 13.
Jardin, Albert B., Philadelphia, Pa. Closure for garment pockets. No. 1,419,735; June 13.
Jenkins, John E. (See Richmond, Walter, assignor.)
Jenkins, Paul K., Maysville, Okla. Broom-corn breaker and tabler. No. 1,419,262; June 13.
Jerabek, Charles, assignor to L. Rothschild, Philadelphia, Pa. Auto tire tube carrier. (Reissue.) No. 15,383; June 13.
Johnson, Allen D. W., Anoka, Minn. Grain bin. No. 1,419,142; June 13.
Johnson, Emil, San Francisco, Calif. Combination tire carrier and tool box. No. 1,419,456; June 13.
Johnson, John O., White Bear Lake, Minn. Snowplow. No. 1,419,263; June 13.
Johnson, Peter F., Oakland, Calif. Hammer gauge. No. 1,419,567; June 13.
Johnson Service Company. (See Fortier, Charles L., assignor.)
Johnston, Edward A., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Tractor control. No. 1,419,264; June 13.
Johnston, Harry B. (See Burns, Walter W., assignor.)
Johnston, Harry B., Seattle, Wash. Piston and connecting rod. No. 1,419,736; June 13.
Johnston, Harry B., Seattle, Wash. Piston and piston ring. No. 1,419,857; June 13.
Johnston, Roy B., Hamilton, Ontario, Canada, assignor, by mesne assignments, to International Harvester Company, Chicago, Ill. Release hitch. No. 1,419,265; June 13.
Jones, Barton M., Piqua, Ohio. Hydraulic transportation system. No. 1,419,143; June 13.
Joyner, Miles D., Spartanburg, S. C. Crosshead. No. 1,419,457; June 13.
Juelson, Edwin, assignor to American Aero Company, Chicago, Ill. Hub. No. 1,419,568; June 13.
Julien, Napoleon P., Springfield, Mass. Hoisting mechanism for elevators. No. 1,419,783; June 13.
Julius Pintsch Akt.-Ges. (See Klebert, Emil, assignor.)
Kägi, Emil, Winterthur, Switzerland. Frame beam for horizontal engines. No. 1,419,858; June 13.
Kalma, Steve, assignor of one-half to G. Getsie, Braddock, Pa. Automobile. No. 1,419,266; June 13.
Kamp, Hermann, Barmen, Germany. Moistener. No. 1,419,504; June 13.
Kasley, Alexander T., Essington, Pa., assignor to Westinghouse Electric & Manufacturing Company. Method and apparatus for generating power. No. 1,419,267; June 13.
Kearney, W. J., et al. (See Smartt, Brinay, assignor.)
Keck, Christian. (See Wehrman, William G., assignor.)
Keckler, Charles W., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,419,569; June 13.
Keckler, Earl A., Brilliant, Ohio. Hanging flytrap. No. 1,419,859; June 13.
Keegan, Charles R. (See Stevens, Frank, assignor.)
Keeler, Frank F., Sr., assignor of one-half to T. R. Baker, Indianapolis, Ind. Combined shock absorber and spring support. No. 1,419,268; June 13.
Kell-Oil Heater Company. (See Keller, Herman D., assignor.)
Keller, Harry, Chicago, Ill. Rivet breaker. No. 1,419,269; June 13.
Keller, Herman D., assignor to Kell-Oil Heater Company, Coldwater, Mich. Orchard heater. No. 1,419,570; June 13.
Kellogg, Leroy, Chicago, Ill. Photometer chart. No. 1,419,385; June 13.
Kellogg Toasted Corn Flake Company. (See Foster, Peter W., assignor.)
Kelly, Henry D., Kansas City, Mo. Combination faucet. No. 1,419,386; June 13.
Kelvin Bottomley & Baird Limited. (See Field, Michael B., assignor.)
Kempin, Richard A. (See Hoppe, Oscar, assignor.)
Kent, William J., Brooklyn, N. Y., assignor to The Mechanical Rubber Company. Machine for cutting slab packing. No. 1,419,144; June 13.
Kerr, James M., Crawfordsville, Ind. Shock absorber. No. 1,419,629; June 13.
Kerr, James M., Crawfordsville, Ind. Shock absorber. No. 1,419,630; June 13.
Kerr, James M., Crawfordsville, Ind. Shock absorber. No. 1,419,631; June 13.
Kiddie, Frederick W., Leamington, assignor to Winget Limited, London, England. Machine for mixing concrete ingredients or other substances. No. 1,419,737; June 13.
Kidney, Josiah R., assignor to The N. N. Hill Brass Co., East Hampton, Conn. Sounding toy. No. 1,419,632; June 13.
Kimball, E. B., et al., trustees. (See Heslewood, W. R., and Mocine, assignors.)
King, Fred B., and R. L. Stevens, assignors to National Spring & Wire Company, Albion, Mich. Cushioned seat. No. 1,419,270; June 13.
King, Horace W., Ann Arbor, Mich. Depth-indicating device. No. 1,419,387; June 13.
King, Horace W., Ann Arbor, Mich. Depth-indicating device. No. 1,419,388; June 13.
King Lock Company. (See Christoph, Emil A., assignor.)
King Lock Company. (See Lozon, Ramon J., assignor.)

Kingsbury, Albert. (See Wadsworth, Frank L. O., assignor.)
Kinser, Isaac E., Dallas, Tex. Motor terminal connection. No. 1,419,571; June 13.
Kirby, John J., Susanville, Calif. Detachable handle for vessels. No. 1,419,860; June 13.
Kirkpatrick, Thomas E. (See Beck, G. E., and Kirkpatrick.)
Klagg, Lorenz. (See Miller, Rudolph, assignor.)
Klasnich, John, Universal, Ind. Lock for motor vehicles. No. 1,419,861; June 13.
Klausmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Rotary sectional inspective nut. No. 1,419,906; June 13.
Klebert, Emil, Karlshorst, near Berlin, assignor to Julius Pintsch Akt.-Ges., Berlin, Germany. Porous charge for containers serving for storage of explosive gases dissolved in liquids, as, for instance, acetylene. No. 1,419,862; June 13.
Kleinberg, Henry H., Brooklyn, N. Y. Reserve-supply tank. No. 1,419,145; June 13.
Kleinschmidt, Edward E., Brooklyn, N. Y., assignor to Kleinschmidt Electric Company, Inc. Indicating mechanism. No. 1,419,146; June 13.
Kleinschmidt Electric Company. (See Kleinschmidt, Edward E., assignor.)
Kline, Ambrose E., Brookville, Pa. Sign. No. 1,419,863; June 13.
Kloepping, Charles A., Hoboken, N. J. Machine for making pastils. No. 1,419,147; June 13.
Klomfass, Eugene C., Chicago, Ill. Burglar alarm and lock. No. 1,419,738; June 13.
Klorer, Charles P., assignor to Miller Saw-Trimmer Company, Pittsburgh, Pa. Sheet-registering device. No. 1,419,148; June 13.
Klorer, Charles P., assignor to Miller Saw-Trimmer Company, Pittsburgh, Pa. Sheet-registering device. No. 1,419,149; June 13.
Knapp, Emma, assignor to W. F. Knapp, Denver, Colo. Fastening. No. 1,419,864; June 13.
Knapp, William F. (See Knapp, Emma, assignor.)
Kniep, William H., assignor to Graham Paper Company, St. Louis, Mo. Marketing bag. No. 1,419,739; June 13.
Knight, Ralph F., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Grinding machine. No. 1,419,271; June 13.
Knox, Orville M., Knoxboro, N. Y. Metal fencepost. No. 1,419,633; June 13.
Knox, Samuel L. G., San Rafael, Calif. Leveling and plowing machine. No. 1,419,866; June 13.
Koch, Daniel, Roxbury, Mass. Shoe. No. 1,419,676. June 13.
Koewing, Frank, West Orange, N. J., assignor to Koewing Patterns, Inc., New York, N. Y. Pattern for garments. No. 1,419,634; June 13.
Koewing Patterns, Inc. (See Koewing, Frank, assignor.)
Kohls, Janet R. (See Lansing, H. L., and Kohls.)
Kolberg, Albert, Sheboygan, Wis. Inflatable life preserver. No. 1,419,272; June 13.
Kosman, John, and Marcin Grzesik, Brooklyn, N. Y. Liquid-dispensing pump. No. 1,419,572; June 13.
Krementz, Frank, Company. (See Gauer, William, assignor.)
Kress, Wilhelmine, Pittsburgh, Pa. Curtain rod. No. 1,419,389; June 13.
Kronable, John B., assignor to McQuay-Norris Manufacturing Company, St. Louis, Mo. Grinding machine. No. 1,419,740; June 13.
Krum, Charles L., and H. L. Krum, assignors to Morkrum Company, Chicago, Ill. Transmitter for selective or printing telegraphs. No. 1,419,677; June 13.
Krum, Howard L. (See Krum, Charles L. and H. L.)
Krupp, Leo A., assignor of one-half to The Buckeye Traction Ditcher Company, Findlay, Ohio. Apron wheel. No. 1,419,390; June 13.
Kruse, Peter, assignor to E. W. Bliss Company, Brooklyn, N. Y. Can-body-forming machine. No. 1,419,573; June 13.
Kuhsick, Albert J. H., and A. Mayer, Brooklyn, N. Y., assignors to Steel Spring Piston Ring Co., Brooklyn, N. Y. Piston ring. No. 1,419,150; June 13.
Kull, Samuel B., Bridgeport, Conn. Rail-fastening means. No. 1,419,865; June 13.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,419,635; June 13.
Kurtz, Christian S., Ephrata, Pa. Pump. No. 1,419,151; June 13.
La Bour, Harcy E., assignor to Chemical Equipment Company, Chicago, Ill. Pumping system. No. 1,419,273; June 13.
Lachman, Laurence S., assignor to Universal Electric Welding Company, New York, N. Y. Girder or frame. No. 1,419,274; June 13.
La Fray, Elmer F. (See Taylor, J. H., and La Fray.)
Laird, Wilbur G., assignor to H. L. Doherty, New York, N. Y. Scrubber. No. 1,419,867; June 13.
Lambert, George A., Anderson, Ind. Bookkeeping entry sheet. No. 1,419,275; June 13.
Lansing, Henry L., and J. R. Kohls, San Francisco, Calif. Electric flower lamp. No. 1,419,152; June 13.
Larson, Nils G., Attleboro, Mass. Wrench. No. 1,419,391; June 13.
La Societe Pichard freres, siege social. (See Pichard, Charles, assignor.)
Lau, Wesley E. C., Klemme, Iowa. Phonographic sound box. No. 1,419,505; June 13.
Lawson, William E., Chicago, Ill., assignor to Englander Spring Bed Company, New York, N. Y. Extensible bed. No. 1,419,574; June 13.
Lederer, Anton, Vienna, Austria, assignor to Westinghouse Lamp Company. Process and apparatus for bending filaments. No. 1,419,153; June 13.
Lee, William A., Cargile, Ark. Cable clamp. No. 1,419,741; June 13.
Le Fevre, George A., Richmond Hill, N. Y., and H. Hutchinson, Newark, N. J., assignors to Paxflat Barrel & Crate Corporation, New York, N. Y. Hoop fastening. No. 1,419,392; June 13.
Lehnhoff-Wyld, Frederic, Paris, France. Device to obtain stereoscopic effects in cinematographic projections. No. 1,419,901; June 13.
Lehr, Edwin, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Voltage-regulator system. No. 1,419,458; June 13.
Leitch, James T., assignor of one-fifth to T. A. Freed and one-fifth to E. S. Freed, Allentown, Pa. Phonograph. No. 1,419,459; June 13.
Lent, Alvah F., Newark, N. J. Cap pistol. No. 1,419,742; June 13.
Lentz, Charles R., Indianapolis, Ind. Cutter for pastry-making machines. No. 1,419,276; June 13.
Lepley, Daniel F., Connellsville, Pa. Overspeed control for hoists. No. 1,419,154; June 13.
Lepley, Daniel F., Connellsville, Pa. Hoisting mechanism. No. 1,419,155; June 13.
Lettich, Antone, San Francisco, Calif. Wall-radiator support. No. 1,419,575; June 13.
Levitan, Benjamin W., New York, N. Y. Framework of buildings. No. 1,419,868; June 13.
Lewis, Lloyd V., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic-controlling apparatus. No. 1,419,869; June 13.
Lexander, George A., Belmont, Mass. Wrench. No. 1,419,870; June 13.
Leyner, John G., deceased, by L. M. Leyner, administratrix, Littleton, assignor to The Leyner Tractor and Manufacturing Company, Denver, Colo. Endless track or belt or chain tightening mechanism for traction engines and for other purposes. No. 1,419,156; June 13.
Leyner, Lina M., administratrix. (See Leyner, John G.)
Leyner Tractor and Manufacturing Company. (See Leyner, John G., assignor.)
Liberty Manufacturing Company. (See Clergy, Louis J., assignor.)
Lie, Egil, Odda, Norway. Producing urea from cyanamide. No. 1,419,157; June 13.
Lindsey, Harry W., Jr. (See Green, C. F., and Lindsey.)
Link-Belt Company. (See Oakes, Frank J., assignor.)
Liquid Carbonic Company. (See Smith, Horace M., assignor.)
Little, George H., assignor to R. J. Reynolds Tobacco Company, Winston-Salem, N. C. Machine for applying box tops. No. 1,419,576; June 13.
Littman Loxair Valve Corporation. (See Littman, Zeno, assignor.)
Littman, Zeno, New York, N. Y., assignor to Littman Loxair Valve Corporation. Valve. No. 1,419,678; June 13.
Littman, Zeno, New York, N. Y., assignor to Littman Loxair Valve Corporation. Pneumatic valve. No. 1,419,679; June 13.
Livesay, Robert C. (See Wilson, F. D., and Livesay.)
Lohberger, Andrew, Toledo, Ohio. Plow. No. 1,419,743; June 13.
Loudy, Flavius E., Mobile, Ala. Aerofoil. No. 1,419,277; June 13.
Lowenstein, Fritz, Brooklyn, N. Y. Combined key and switch. No. 1,419,460; June 13.
Lozon, Ramon J., assignor to King Lock Company, Chicago, Ill. Lock. No. 1,419,393; June 13.
Luce, George D., Watertown, Wis. Trash cutter. No. 1,419,158; June 13.
Ludwig, Leonard L., Delavan, Kans. Kitchen cabinet. No. 1,419,278; June 13.
Luedke, Gustav P., Springfield, Ill. Thrashing machine. (Reissue.) No. 15,384; June 13.
Luftschiffbau Zeppelin Gesellschaft mit beschrankter Haftung. (See Dornier, Claudius, assignor.)
Luftschiffbau Zeppelin Gesellschaft mit beschrankter Haftung. (See Stahl, Karl, assignor.)
Lukes, John. (See Edwards, W. R., and Lukes.)
Macbeth, Arthur L., Baltimore, Md. Picture-projection theater. No. 1,419,281; June 13.
McDonald, Donald, Louisville, Ky. Game counter. No. 1,419,871; June 13.
MacDonald, James M., East Orange, N. J. Test and practice apparatus for golf players. No. 1,419,636; June 13.
MacKenzie, John A., Alameda, Calif. Reenforced metallic lining. No. 1,419,395; June 13.
Mackintosh Hemphill Company. (See McMillen, Samuel, assignor.)
McLain, Robert H., Schenectady, N. Y., assignor to General Electric Company. Control of electromagnetic switches. No. 1,419,872; June 13.
Macloskie, George, and C. A. Ives, Erie, Pa., assignors to General Electric Company. Safety car control and air-brake equipment. No. 1,419,873; June 13.

Macmillan, Campbell, Schenectady, N. Y., assignor to General Electric Company. Electric ship propulsion. No. 1,419,874; June 13.
Madsen, Charles H., Troy, N. Y. Step-cutting device. No. 1,419,875; June 13.
Maguire, Joseph A., Gettysburg, Pa. Antiskidding device. No. 1,419,680; June 13.
Maier, Karl, assignor to Union-Special Maschinenfabrik Gesellschaft mit beschrankter Haftung, Stuttgart, Germany. Chain-stitch machine. No. 1,419,462; June 13.
Main, John H., Detroit, Mich. Grease cup. No. 1,419,282; June 13.
Maisons, Gustave des Trois, Montreal, Quebec, Canada. Hay and straw tag. No. 1,419,161; June 13.
Manhattan-Rome Company. (See Sisbower, G. F., and Pittoni, assignors.)
Manwaring, Frederick G., Campgaw, N. J. Storage battery. No. 1,419,396; June 13.
Mapelsden, Harold H., and C. F. Bullock, Schenectady, N. Y., assignors to General Electric Company. Flow tube. No. 1,419,876; June 13.
Marathon Tire & Rubber Company, The. (See Terr, Joseph, assignor.)
Marino, Vincenzo. (See Piduto, C., and Marino.)
Markham Air Rifle Company. (See Roe, Ernest S., assignor.)
Marquette, Melvon A., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire mold. No. 1,419,577; June 13.
Marquette, Melvon A., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Making tires. No. 1,419,879; June 13.
Marsh, Warren J., Seattle, Wash. Feed-mixing machine. No. 1,419,397; June 13.
Martel, Alfred, Jr., Mountain View, Calif. Aeroplane propeller. No. 1,419,877; June 13.
Martin, Friedrich, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germay. Roller bearing for the cam disks of cam-disk gearings. No. 1,419,681; June 13.
Martin, Jesse W., assignor of one-half to S. Martin, Friendship, Tenn. Coin separator. No. 1,419,878; June 13.
Martin, Richard H., Gainesville, Ga. Wheel. No. 1,419,162; June 13.
Martin, Silas. (See Martin, Jesse W., assignor.)
Marx, Frederick P., St. Louis, Mo. Shoe heel. No. 1,419,637; June 13.
Mason, Mell, Exeter, Calif. Coupling device for trailers. No. 1,419,398; June 13.
Mathews, Fred. Chicago, Ill. Shoe rack. No. 1,419,163; June 13.
Mattice, Royal, Philadelphia, Pa. Welding tool. No. 1,419,744; June 13.
Mattson, Vernon L., South Charleston, W. Va. Mathematical instrument. No. 1,419,283; June 13.
Mauclère, Pierre A. P. V., Paris, France. Safety apparatus for the storage and distribution of inflammable and other liquids within tanks and piping out of contact with the air. No. 1,419,880; June 13.
Maull, Edward N., Orlando, assignor to Skinner Machinery Company, Dunedin, Fla. Washing apparatus. No. 1,419,399; June 13.
Maurer, Henry E., Jr., assignor to Ideco, Springfield, Ill. Liquid-dispensing apparatus. No. 1,419,284; June 13.
Mauss, Wilhelm, assignor to Continuous Centrifugal Separators Limited, Johannesburg, Transvaal, South Africa. Centrifugal decantation. No. 1,419,285; June 13.
Mauss, Wilhelm, assiguor to Continuous Centrifugals Limited, Johannesburg, Transvaal, South Africa. Vacuum filter. No. 1,419,286; June 13.
Max Arms Machine Company, The. (See Brenzinger, Julius, assignor.)
Maxwell, Herbert C., Cleveland, Ohio. Flashing and counterflashing for roofs, etc. No. 1,419,287; June 13.
Mayer, Arthur. (See Kuhrick, A. J. H., and Mayer.)
McCandless, Frank J., Allerton, Iowa. Starter for internal-combustion engines. No. 1,419,461; June 13.
McCarthy, Florence, assignor of one-half to J. Wile, New York, N. Y. Apparatus for inveloping mailing matter. (Reissue.) No. 15,385; June 13.
McCutchen, Charles G. (See Baker, Arthur R., assignor.)
McGowen, William R., Chicago, Ill. Bumper-supporting bracket. No. 1,419,279; June 13.
McKechnie, James, Barrow-in-Furness, assignor to Vickers Limited, Westminster, London, England. Reciprocating engine. No. 1,419,159; June 13.
McKee, Stillman W., Los Angeles, Calif. Follow-up filing system. No. 1,419,394; June 13.
McKinnon, James T., Detroit, Mich. Extensible truck body. No. 1,419,160; June 13.
McMillen, Samuel, assignor to Mackintosh Hemphill Company, Pittsburgh, Pa. Journal bearing. No. 1,419,506; June 13.
McNeill, John D., Chicago, Ill. Apparatus for rendering metal homogeneous. No. 1,419,280; June 13.
McQuay-Norris Manufacturing Company. (See Kronable, John B., assignor.)
Meador, Arthur G., Clovis, N. Mex. Draft equalizer. No. 1,419,881; June 13.
Mechanical Rubber Company, The. (See Kent, William J., assignor.)
Meir, George. (See Di Como, Charles, assignor.)
Meissner, William O., assignor to Sterling Devices Company, Chicago, Ill. Nonset stop for phonographs. No. 1,419,161; June 13.
Mellen, Bert F. (See Ward, T. W., and Mellen.)
Mendenhall, William P., East Orange, N. J. Tail-light and license-plate holder. No. 1,419,745; June 13.
Merrill, Frank H., Los Angeles, Calif. Purifying sodium carbonate and the like. No. 1,419,463; June 13.
Merwin, Newton D., assignor of one-half to P. W. Porter, Higganum, Conn. Plane iron. No. 1,419,400; June 13.
Metzger, Floyd J., New York, N. Y., assignor to Air Reduction Company, Inc. Acetylene tank. No. 1,419,746; June 13.
Metzger, John, assignor to Security Amusement Engineering Corporation, Los Angeles, Calif. Amusement apparatus. No. 1,419,578; June 13.
Metzner, Albert W. (See Sherman, J. Q., and Metzner.)
Meyer, Hermann, Berlin, assignor to August Riedinger, Ballonfabrik Augsburg Aktiengesellschaft, Augsburg, Germany. Collapsible boat. No. 1,419,464; June 13.
Meyers, J. Nicholas, Philadelphia, Pa. Educational device. No. 1,419,882; June 13.
Michalski, Joseph J., Buffalo, N. Y. Theft detector for automobiles. No. 1,419,401; June 13.
Midwest Engine Company. (See Wait, Henry H., assignor.)
Miehle Printing Press and Manufacturing Company et al. (See White, Joseph, assignor.)
Milburn Implement Manufacturing Co. (See Aton, William E., assignor.)
Miles, George B., Washington, Ill. Shot-putting sling. No. 1,419,682; June 13.
Miller, Albin, Prince George, British Columbia, Canada. Bottle. No. 1,419,747; June 13.
Miller, Chester D., Los Angeles, Calif. Clamp. No. 1,419,288; June 13.
Miller, Henry, assignor to American Can Company, San Francisco, Calif. Container. No. 1,419,883; June 13.
Miller, John A., Los Angeles, Calif., assignor to L. R. Wilder, Chicago, Ill. Railway signaling and train-control system. No. 1,419,289; June 13.
Miller, Lewis W., Muskogee, Okla. Convertible furniture. No. 1,419,465; June 13.
Miller, Ludvic M., Winneconne, Wis. Extension foot for ladders. No. 1,419,748; June 13.
Miller, Max V., New York, N. Y. Display device and blank No. 1,419,638; June 13.
Miller, Rudolph, assignor of one-half to L. Klagg, St. Michael, Pa. Automatic gas lock. No. 1,419,884; June 13.
Miller Saw-Trimmer Company. (See Klorer, Charles P., assignor.)
Miller Saw-Trimmer Company. (See Smith, Walter H., assignor.)
Millers Falls Company. (See Ryther, Henry A., assignor.)
Milligan, George R. E. (See Earle, Ethan H., assignor.)
Milwaukee Corrugating Company. (See Curtis, Lewis E., assignor.)
Minor, Marcus L., Atlanta, Ga. Double clasp. No 1,419,683; June 13.
Moberry, Leonard A., Oakland, Calif. Hair comb. No. 1,419,579; June 13.
Mocine, Harry F. (See Heslewood, W. R., and Mocine.)
Mocine, Harry F., et al., trustees. (See Heslewood, W. R., and Mocine, assignors.)
Mohawk Carpet Mills, Inc. (See Hathaway, Edgar F., assignor.)
Molinari, Domenico, Brooklyn, N. Y. Bottle stopper and measuring glass. No. 1,419,580; June 13.
Molins, Walter E., London, England. Apparatus for applying adhesives alternately to both faces of sheets of paper or the like. No. 1,419,466; June 13.
Molloy, Joseph T., and H. Hempe, Poughkeepsie, N. Y. Latch for automobile and other doors. No. 1,419,639, June 13.
Monahan, Thomas W., New York, N. Y. Valve. No. 1,419,290; June 13.
Moore, Fred R., Chicago, Ill. Automobile indicator. No. 1,419,467; June 13.
Moren, Frank V., West Springfield, Mass. Tailor's try-on clasp. No. 1,419,165; June 13.
Moriarty, William F., Chicago, Ill., assignor to Service Invention & Development Company. Coin-controlled mechanism. No. 1,419,581; June 13.
Morkrum Company. (See Krum, Charles L., and H. L., assignors.)
Morrill, Herbert B., Salem, Mass. Flow-control device. No. 1,419,640; June 13.
Morse, William F., assignor to S. R. Parry, Rochester, N. Y. Box-covering machine. No. 1,419,641; June 13.
Morton, Fredrick R., Fresno, Calif. Road scraper. No. 1,419,642; June 13.
Mosher, George W., Newport, Ky. Whirligig toy. No. 1,419,402; June 13.
Moss, Sam J., Dennison, Ohio. Tire attachment. No 1,419,885; June 13.
Motor Terminals Company, The. (See Fitch, Benjamin F., assignor.)
Moxey, James A., Chicago, Ill., assignor to International Harvester Company. Wagon reach bar. No. 1,419,291; June 13.
Müller, Wilhelm, Bernburg, Germany. Pipe cleaner. No. 1,419,886; June 13.

Mundy, J. S., Hoisting Engine Co. (See Imhoff, August J., assignor.)
Murdock, Kelso, assignor to The Murdock Manufacturing and Supply Company, Cincinnati, Ohio. Regulator for antifreezing drinking fountains. No. 1,419,292; June 13.
Murdock Manufacturing and Supply Company, The. (See Murdock, Kelso, assignor.)
Murphy, Robert N., Ottawa, Ontario, Canada. Humidifier for heaters. No. 1,419,582; June 13.
Murphy, Thomas J., assignor of one-half to J. P. B. Duffy, Rochester, N. Y. Alternating-current motor. No. 1,419,749; June 13.
Murray, John A. (See Hanlon, George J., assignor.)
Myers Aircraft Corporation. (See Myers, George F., assignor.)
Myers, Charles G., Philadelphia, Pa. Shaving brush. No. 1,419,887; June 13.
Myers, George F., New York, N. Y., assignor to Myers Aircraft Corporation. Aircraft. No. 1,419,507; June 13.
Myers, Lewis C., Brooklyn, assignor to Royal Typewriter Company, Inc., New York, N. Y. Sound-muffling pad for typewriting machines. No. 1,419,293; June 13.
Nagy, Berthold, Brooklyn, N. Y. Feeding attachment for crown-cork-making machines. No. 1,419,583; June 13.
Nasmith, John W., Heaton Mersey, Manchester, England. Corner-staying metal-edging and like machine. No. 1,419,344; June 13.
National Aniline & Chemical Company, Inc. (See Slimm, John B., assignor.)
National Safety Devices Company. (See Woodring, Alberto L., assignor.)
National Spring & Wire Company. (See King, F. B., and Stevens, assignors.)
Neal, Daniel D. (See Boone, Elsworth E., assignor.)
Neikirk, John O., Lombard, Ill. Draft mechanism. No. 1,419,508; June 13.
Neher, Albert H., Fairfield, Iowa. Overhead track connection. No. 1,419,684; June 13.
Nelson, Joyce C., Minneapolis, Minn., assignor of one-sixth to W. H. Nelson, one-sixth to W. N. Nelson, and one-sixth to S. A. Vandusen, Tracy, Minn. Seat support for motor cycles. No. 1,419,294; June 13.
Nelson, Raymond F., Detroit, Mich. Tool kit for motor vehicles. No. 1,419,166; June 13.
Nelson, Theodore H., Chicago, Ill. Lockout mechanism for intercommunicating telephone systems. No. 1,419,403; June 13.
Nelson, Walter H., et al. (See Nelson, Joyce C., assignor.)
Nelson, Will N., et al. (See Nelson, Joyce C., assignor.)
Ness, Jules M., Vermilion, S. Dak. Double envelope. No. 1,419,888; June 13.
Newell, Louis B., assignor to Carr-Lowrey Glass Company, Baltimore, Md. Bottle. No. 1,419,509; June 13.
Newman, Edwin P. S., Washington, D. C., assignor to N. D. Baker, Secretary of War, trustee. Detecting gases. No. 1,419,685; June 13.
Nichols, Harry J., Washington, D. C. Pyrotechnic composition. No. 1,419,295; June 13.
Nichols, James S., S. T. Billingsly, and H. E. Scoggins, Atlanta, Ga. Wheel rim. No. 1,419,889; June 13.
Nicholson, John, deceased, by K. B. Nicholson, executrix, Houston, Tex., assignor to The Texas Company, New York, N. Y. Track-spraying apparatus. No. 1,419,686; June 13.
Nicholson, Kate B., executrix. (See Nicholson, John.)
Nicolussi, Engelbert. (See Fial, Wojciech, assignor.)
Nightingale, Alvin E., Cedarville, Mass. Seed drill. No. 1,419,296; June 13.
Noel, Raymond, Sr., Dubois, Pa. Baby walker. No. 1,419,890; June 13.
Nordfors, Conrad. (See Wood, H. A. W., and Nordfors.)
Norelius, Emil F., Minneapolis, Minn. Truck for vehicles. No. 1,419,510; June 13.
Norris, Almon E., Brookline, Mass. Hoisting apparatus. No. 1,419,167; June 13.
Norris, Paul E., Wilkinsburg, assignor to Westinghouse Union Battery Company, Swissvale, Pa. Sealing structure for storage-battery terminal posts. No. 1,419,511; June 13.
Northern Equipment Company. (See Veenischoten, Vincent V., assignor.)
Northwestern Corporation, The. (See Bolen, Emerson A., assignor.)
Novitzky, Emil, Detroit, Mich. Frame fastener for beds or other articles. No. 1,419,297; June 13.
Nystrom, A. J., & Co. (See Beckley, Major H. E., assignor.)
Oakes, Frank J., Indianapolis, Ind., assignor to Link-Belt Company, Chicago, Ill. Chain. No. 1,419,891; June 13.
Oakes, Frank J., Indianapolis, Ind., assignor to Link-Belt Company, Chicago, Ill. Bushing for carrier rollers, etc. No. 1,419,892; June 13.
Ohmer, W. I. (See Hochstetter, Frederick W., assignor.)
Olfort, Axel, Chicago, Ill. Window adjuster. No. 1,419,893; June 13.
Oliver, Samuel E., Vancouver, British Columbia, Canada. Still. No. 1,419,894; June 13.
Olsen, Harvey, New York, assignor to M. J. Cafiero, Kings County, N. Y. Cable holder. No. 1,419,584; June 13.
Olson, Charles A., Jamestown, N. Y. Wrench. No. 1,419,404; June 13.
Oman, Reuben B., Willmar, Minn. Welding torch. No. 1,419,168; June 13.
O'Neal, John, Terre Haute, Ind. Collar button. No. 1,419,298; June 13.
O'Neill, Charles C., and J. J. Hynes, Anncar, Nebr. Corn-husking machine. No. 1,419,895; June 13.
Onnertz, Paul. (See Goldberg, P. Onnertz, and Peters.)
Orbe, Pedro, Carlin, Nev. Rat trap. No. 1,419,299; June 13.
Ord, Edward O. C., Berkeley, Calif. Gold pan. No. 1,419,405; June 13.
Ormsby, Frank E., Chicago, Ill. Washing machine. No. 1,419,300; June 13.
Orrell, Leslie C. (See Parrish, Samuel H., assignor.)
Osborn, Alden E., New York, N. Y. Internal-combustion engine. No. 1,419,512; June 13.
Osnes, John, Garner, C. Halverson, Clear Lake, Iowa, and D. S. Foley, Minneapolis, Minn. Waterproof stock feeder. No. 1,419,468; June 13.
Otto, Herman, Jackson, Mich. Cultivator shield. No. 1,419,687; June 13.
Overbury, Frederick C., Hillsdale, N. J., assignor to The Flintkote Company, Boston, Mass. Machine for making ornamental roofing. No. 1,419,169; June 13.
P & M Company, The. (See Warr, Harold G., assignor.)
Pack, Walter, Takoma Park, Md., assignor to C. A. Rogers, Hartford, Conn. Magazine film and plate holder for cameras. No. 1,419,406; June 13.
Pagé, Victor W., New York, N. Y. Fuel tank. No. 1,419,896; June 13.
Paige, Frank L., Brawley, Calif. Plow or disk harrow. No. 1,419,585; June 13.
Palmer, Edgar J., Wichita, Kans. Card holder. No. 1,419,301; June 13.
Palmer, Lafayette, Harrisburg, Pa. Hose clamp. No. 1,419,897; June 13.
Pape, Herman G., New York, N. Y. Mouthpiece. No. 1,419,513; June 13.
Pape, Max C. A. H., Kiel, assignor to Carbonit Akt.-Ges., Hamburg, Germany. Cutting device. No. 1,419,302; June 13.
Pardee, Frank, Hazleton, Pa. Coal breaker. No. 1,419,407; June 13.
Parrish, Samuel H., assignor of one-half to L. C. Orrell, Chicago, Ill. Composition for rendering paper transparent and making same. No. 1,419,750; June 13.
Parry, Samuel R. (See Morse, William F., assignor.)
Paschke, Otto H., assignor to Automatic Truck Brake Company, Yakima, Wash. Automatic safety lock device. No. 1,419,469; June 13.
Paxflat Barrel & Crate Corporation. (See Le Fevre, G. A., and Hutchinson, assignors.)
Pazos y Sacio, V., Newark, N. J. Method of and apparatus for smelting ores. No. 1,419,764; June 13.
Peak, Clyde I., Barada, Nebr. Nonskid chain. No. 1,419,751; June 13.
Pearson, Carl J., and L. M., Chicago, Ill. Phonograph. No. 1,419,514; June 13.
Pearson, Charles, Chicago, Ill., assignor to International Harvester Company. Tongue support. No. 1,419,303; June 13.
Pearson, Sigrid L. M. (See Pearson, Carl J., and S. L. M.)
Pease, Walter M., assignor of one-half W. A. Contant, Brighton, N. Y. Receptacle. No. 1,419,304; June 13.
Peduto, Sosmo, and V. Marino, Malden, Mass. Combination pot. No. 1,419,515; June 13.
Peigler, Commodore T., Rock Hill, S. C. Internal-combustion engine. No. 1,419,688; June 13.
Perrine, Wilbur H., Trenton, N. J. Inner-tube-stripping post. No. 1,419,752; June 13.
Person, Earl R., assignor to The Viscoloid Company, Leominster, Mass. Comb. No. 1,419,753; June 13.
Peters, Alfred. (See Goldberg, P., Onnertz, and Peters.)
Petterson, Gustav. (See Hostetter, Frederick, assignor.)
Pichard, Charles, assignor to La Societe Pichard Freres, Paris, France. Carroting hairs. No. 1,419,754; June 13.
Pittoni, Louis E. (See Sisbower, G. F., and Pittoni.)
Plackard, Charles F., Summitville, Ind. Bed construction. No. 1,419,586; June 13.
Plost, Isaac, assignor of one-half to T. R. Harris, University City, Mo. Rail tie. No. 1,419,643; June 13.
Polhemus, Louis E., Miami, Ariz. Key ring and holder. No. 1,419,408; June 13.
Pomeranz, Jacob J., New York, N. Y. Lock. No. 1,419,516; June 13.
Porter, Arthur W., Colfax, Iowa. Traction engine. No. 1,419,689; June 13.
Porter, Philip W. (See Merwin, Newton D., assignor.)
Potter, Fred B., Los Angeles, Calif. Bending device for pipes and bars. No. 1,419,755; June 13.
Potts, Louis M., Baltimore, Md., assignor, by mesne assignments, to American Telephone and Telegraph Company, New York, N. Y. System of telegraph distribution. No. 1,419,409; June 13.
Powels, John, New York, N. Y. Form retainer for hats. No. 1,419,517; June 13.
Puening, Franz, Pittsburgh, Pa. Coking coal. No. 1,419,908; June 13.
Putnam, Alden L., Detroit, Mich., assignor to Detroit Pressed Steel Company, Wilmington, Del. Tire rim. No. 1,419,170; June 13.
Putnam, Charles V., and R. F. Trimmer, East Cleveland, Ohio. Baking pan. No. 1,419,756; June 13.
Radium Dial Company. (See Erdle, Reiner W., assignor.)

Rand, Frank R., London, and T. H. Sanders, Sheffield, England. Coupling for railway and other vehicles. No. 1,419,757; June 13.
Randol, Glenn T., Marmaduke, assignor of fifty per cent to S. S. Steinberg, Paragould, Ark. Mechanical gear shift. No. 1,419,518; June 13.
Ratzburg, Victor P., Newton, Mass., assignor, by mesne assignments, to Barrell Holding and Manufacturing Company, Portland, Me. Armor for vehicle tires. (Reissue.) No. 15,386; June 13.
Ratzburg, Victor P., Newton, Mass., assignor, by mesne assignments, to Barrell Holding and Manufacturing Company, Portland, Me. Armor for vehicle tires. (Reissue.) No. 15,387; June 13.
Read, Charles, Brooklyn, N. Y. Insulating covering for pipes. No. 1,419,171; June 13.
Reasoner, Isaac A., and D. J. Flintjer, Winona, Mo. Pneumatic tire. No. 1,419,470; June 13.
Recker, Adolph C., Oakville, assignor to The Chase Companies, Inc., Waterbury, Conn. Insulating coupling unit for pull-socket chains. No. 1,419,644; June 13.
Reed, Geo. W., Jr., et al. (See Webb, Robert T., assignor.)
Reichert, John, Racine, Wis. Tool for demountable rims and the like. No. 1,419,758; June 13.
Reid, Daniel S., assignor of one-half to W. F. Strowd, Siluria, Ala. Automatic stop for motion-picture machines. No. 1,419,759; June 13.
Reinl, Frank, Secaucus, N. J. Vehicle signal. No. 1,419,305; June 13.
Reip, Frank A. (See De Dominicis, V., and Reip.)
Reisner, William H., Hagerstown, Md., assignor to The L. S. Starrett Company, Athol, Mass. Indicating surface gauge. No. 1,419,306; June 13.
Resch, Henry, Bayonne, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Typewriting machine. No. 1,419,172; June 13.
Reynolds, Charles J., Melrose, Mass. Inflation valve. No. 1,419,471; June 13.
Reynolds, Mercer, Chattanooga, Tenn. Refining oils. No. 1,419,760; June 13.
Reynolds, R. J., Tobacco Company. (See Little, George H., assignor.)
Richardson, Benjamin, Stourbridge, England. Device for suspending bowls and the like. No. 1,419,307; June 13.
Richmond, Walter, assignor to J. E. Jenkins, Chicago, Ill. Electric switch mechanism. No. 1,419,898; June 13.
Ridgway, Ellis B. (See Ridgway, William H. and E. B.)
Ridgway, William H. and E. B., Coatesville, Pa. Steam hydraulic elevator. No. 1,419,761; June 13.
Ritchie, W. C., & Company. (See Stock, Julius A., assignor.)
Ritter, Daniel W. (See Berry, Robert C., assignor.)
Robertson, Sidney E., Medon, Tenn. Wheel. No. 1,419,762; June 13.
Robidoux, William L. M., Pawtucket, R. I. Cord-fastening hook. No. 1,419,410; June 13.
Robinson, Hassel D., et al. (See Smartt, Brinay, assignor.)
Robinson, Otis. (See Hall, W. A., and Robinson.)
Rockwell, Hugh M., Bristol, Conn., assignor, by mesne assignments, to Standard Steel and Bearings Incorporated, Wilmington, Del. Ball-loading device. No. 1,419,519; June 13.
Rockwell, Hugh M., Bristol, Conn., assignor, by mesne assignments, to Standard Steel and Bearings Incorporated, Wilmington, Del. Device for positioning spacing members. No. 1,419,520; June 13.
Rockwell, Hugh M., Bristol, Conn., assignor, by mesne assignments, to Standard Steel and Bearings Incorporated, Wilmington, Del. Inserting balls between race members. No. 1,419,521; June 13.
Roe, Ernest S., assignor to Markham Air Rifle Company, Plymouth, Mich. Air gun. No. 1,419,308; June 13.
Rogers, Charles A. (See Pack, Walter, assignor.)
Rothschild, Louis. (See Jarabek, Charles, assignor.)
Royal Typewriter Company. (See Myers, Lewis C., assignor.)
Ruhe, Carleton, New York, N. Y. Leather-polishing machine. No. 1,419,522; June 13.
Rush, Joseph K. (See Brown, William C., assignor.)
Russell, Henry N. (See Webster, D. L., and Russell.)
Russell, Ian N., Sydney, and G. W. Grayson, Kensington, near Sydney, New South Wales, Australia. Self-contained sanitary closet. No. 1,419,587; June 13.
Russell, Thomas C., Chicago, Ill. Electrical heating device. No. 1,419,309; June 13.
Ruths, Johannes K., Djursholm, assignor to Aktiebolaget Vaporackumulator, Stockholm, Sweden. Pressure lock for digesters. No. 1,419,763; June 13.
Ryerson, Thorval L., Park Ridge, assignor to W. D. Allen Manufacturing Company, Chicago, Ill. Screw plug and making same. No. 1,419,588; June 13.
Ryther, Henry A., Montague, assignor to Millers Falls Company, Millers Falls, Mass. Glass cutter. No. 1,419,310; June 13.
Salsbury, Frank W. (See Anderson, O., and Salsbury.)
Samour, Tegran M., Boston, Mass. Toy. No. 1,419,690; June 13.
Sanders, Thomas H. (See Rand, F. R., and Sanders.)
Sandling, Elmer A., Moss Point, Miss. Electric coil box. No. 1,419,691; June 13.
Sankey, William J., Jr., Hatchechubbee, Ala. Fire extinguisher for airplanes. No. 1,419,311; June 13.
Santori, Frank R., New York, N. Y. Plotting instrument. No. 1,419,645; June 13.
Savage, Arthur W., San Diego, Calif. Toy machine gun. No. 1,419,646; June 13.
Schafer, John C. F., Mount Pulaski, Ill. Pencil-operated lock for book covers. No. 1,419,411; June 13.
Schaper, Fred J., St. Louis, Mo. Clothesline reel. No. 1,419,589; June 13.
Scharfenberg, Oswald. (See Herzberg, W., and Scharfenberg.)
Scherl nee Sendler, Anna M., widow, et al. (See Scherl, Richard.)
Scherl, Richard, deceased, by A. M. Scherl, nee Sendler, widow, heiress of one-fourth, and V. Scherl, son, Potsdam, Germany, heir of three-fourths. Transformable vehicle. No. 1,419,769; June 13.
Scherl, Volkhard, son, et al. (See Scherl, Richard.)
Schilling, Louis F., Salem, Ohio. Collapsible bed. No. 1,419,765; June 13.
Schleper, Johannes F., Amsterdam, Netherlands. Method of and means for jointing electric-current conductors. No. 1,419,523; June 13.
Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company. Circulating pump. No. 1,419,692; June 13.
Schmidt, Otto, Tegel, near Berlin, Germany. Weighing scale. No. 1,419,766; June 13.
Schneider, Jacques, Solothurn, E. Hurlimann, Zuchwil, and F. Billon, assignors to firm "Scintilla," Solothurn, Switzerland. Magneto-electric ignition machine for internal-combustion engines. No. 1,419,767; June 13.
Schonitzer, Rudolph L., Springfield, Ohio, assignor to Scientific Steel Wool Company, Owensboro, Ky. Apparatus for making metal wool and shavings. No. 1,419,472; June 13.
Schonitzer, Rudolph L., Springfield, Ohio, assignor to Scientific Steel Wool Company, Owensboro, Ky. Making metal wool and shavings. No. 1,419,473; June 13.
Schrem, Albert, Giengen, Germany. Nail puller. No. 1,419,412; June 13.
Schroeder, William H., East Orange, N. J. Sectional pneumatic tire. No. 1,419,768; June 13.
Schultz, Albert C. F., Jr., Minneapolis, Minn. Internal-combustion engine. No. 1,419,693; June 13.
Scientific Materials Company. (See Fisher, Edwin H., assignor.)
Scientific Steel Wool Company. (See Schonitzer, Rudolph L., assignor.)
"Scintilla." (See Schneider, J., Hurlimann, and Billon, assignors.)
Scoggins, Howard E. (See Nichols, J. S., Billingsly, and Scoggins.)
Scozzafava, Fred G., Gouverneur, N. Y. Piston ring. No. 1,419,413; June 13.
Seagrave, Frederic S., Detroit, Mich. Propelling attachment for children's vehicles. No. 1,419,312; June 13.
Seaman, George Q., Jr., Brooklyn, N. Y. Change-speed gearing. No. 1,419,770; June 13.
Sears, Roebuck and Company. (See Drake, James C., assignor.)
Seche, Joseph M., Philadelphia, Pa. Electric iron. No. 1,419,173; June 13.
Sechrist, Clarence, York, Pa. Fluid motor. No. 1,419,772; June 13.
Security Amusement Engineering Corporation. (See Metzger, John, assignor.)
Seiss, George J., Toledo, Ohio. Mechanically-operated horn. No. 1,419,313; June 13.
Sena, Salvatore A., Detroit, Mich. Windshield. No. 1,419,414; June 13.
Service Invention & Development Company. (See Moriarty, William F., assignor.)
Sexton, Isaac E., Boston, Mass. Sheet-metal can. No. 1,419,314; June 13.
Seyms, Robert W., San Francisco, Calif., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Dredge-bucket lip. No. 1,419,524; June 13.
Shakeproof Screw & Nut Lock Company. (See Hosking, Richard T., assignor.)
Shalhoub, John. (See Esselmann, Louis H., assignor.)
Sharp, Robert C., assignor of one-fourth to C. A. Harpman, Youngstown, Ohio. Electric drilling tool. No. 1,419,415; June 13.
Sheline, Orville O., Chicago, Ill. Receptacle. No. 1,419,315; June 13.
Shepherdson, William L., Minneapolis, Minn. Article of furniture. No. 1,419,647; June 13.
Sheppard, Walter C., Baltimore, Md. Wrench. No. 1,419,525; June 13.
Sherbondy, Earl H., Cleveland, Ohio. Turbocompressor control. No. 1,419,316; June 13.
Sherman, John Q., and A. W. Metzner, Dayton, Ohio; said Metzner assignor to said Sherman. Transmission mechanism. No. 1,419,174; June 13.
Shirl, Arthur W., Milwaukee, Wis. Airplane control. No. 1,419,416; June 13.
Sieber, Gottwalt, Plauen, Germany. Shuttle embroidering machine. No. 1,419,317; June 13.
Sieveking, Martinus, Staten Island, N. Y., assignor to Flying Eagle Company, Inc. Mobile figure. No. 1,419,694; June 13.
Simpers, Robert H. (See Corbe, Joseph, assignor.)
Singer, Louis M., Toronto, Ontario, Canada. Bumper. No 1,419,318; June 13.

Singer, Louis M., Toronto, Ontario, Canada. Vehicle bumper. No. 1,419,417; June 13.
Sisbower, George F., Flushing, and L. E. Pittoni, New York, assignors to Manhattan-Rome Company, Branch of Rome Metallic Bedstead Co., Long Island City, N. Y. Convertible bed. No. 1,419,319; June 13.
Skinner, Le Grand, Erie, Pa. Valve. No. 1,419,474; June 13.
Skinner Machinery Company. (See Maull, Edward N., assignor.)
Slayton, Ralph E., New York, N. Y. Slicing machine. No. 1,419,418; June 13.
Slimm, John B., Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Meta-hydroxy-benzaldehyde. No. 1,419,695; June 13.
Smartt, Brinay, assignor of one-half to W. J. Kearney and one-fourth to H. D. Robinson, Indianapolis, Ind. Shock absorber. No. 1,419,320; June 13.
Smith, Fred A., Medfield, Mass. Vehicle. No. 1,419,475; June 13.
Smith, Gary B., Chicago, Ill. Wire-link machine. No. 1,419,476; June 13.
Smith, George O., Oakland, Calif. Collar fastener. No. 1,419,696; June 13.
Smith, Henry L., Paterson, N. J. Vision shield. No. 1,419,321; June 13.
Smith, Henry L., Paterson, N. J. Shield. No. 1,419,322; June 13.
Smith, Horace M., assignor to Liquid Carbonic Company, Chicago, Ill. Machine for filling bottles with charged beverages. No. 1,419,697; June 13.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,419,648; June 13.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,419,649; June 13.
Smith, Jesse A. B., Stamford, Conn., assingor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,419,698; June 13.
Smith, Walter H., assignor to Miller Saw-Trimmer Company, Pittsburgh, Pa. Sheet-registering device. No. 1,419,175; June 13.
Smith, William S., Baltimore, Md., and F. S. Williams, Philadelphia, Pa. Camera. No. 1,419,323; June 13.
Snow, Chester A., Jr., Washington, D. C. Aeroplane control. No. 1,419,419; June 13.
Snyder, Gustave I., Medix Run, Pa. Ball-bearing hanger. No. 1,419,420; June 13.
Societe Anonyme des Aeroplanes G. Voisin. (See Voisin, Gabriel, assignor.)
Solomon, Charles, New York, N. Y., assignor of one-third to F. Solomon and one-third to S. Davidovitz, New York, N. Y. Adjustable cap. No. 1,419,771; June 13.
Solomon, Frank, et al. (See Solomon, Charles, assignor.)
Sorensen, Otto A., New York, N. Y. Valve. No. 1,419,650; June 13.
Spotswood, Frank D. (See Hauck, Bernard K., assignor.)
Sprock, Stanley J., and R. Dunn, Clarksville, Pa. Mine-car brake. No. 1,419,773; June 13
Staege, Stephen A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Antihunting regulator system. No. 1,419,421; June 13.
Staege, Stephen A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Antihunting regulator system. No. 1,419,422; June 13
Stahl, Karl, assignor to Firm of Luftschiffbau Zeppelin Gesellschaft mit beschrankter Haftung, Friedrichshafen, Germany. Cardanic suspension. No. 1,419,176; June 13.
Stahl, Karl, assignor to Firm Luftschiffbau Zeppelin Gesellschaft mit beschrankter Haftung, Friedrichshafen, Germany. Safety valve. No. 1,419,177; June 13.
Standard Oil Company of California. (See Hanna, Richard W., assignor.)
Standard Steel and Bearings Incorporated. (See Rockwell, Hugh M., assignor.)
Starkey, Marshall L. (See Fixter, Edward, assignor.)
Starrett, L. S., Company, The. (See Reisner, William H., assignor.)
Steel Spring Piston Ring Co. (See Kuhsiek, A. J. H., and Mayer, assignors.)
Steinberg, Sol S. (See Randol, Glenn T., assignor.)
Stender, William, Milwaukee, Wis. Bottle feeding mechanism for annealing ovens. No. 1,419,324; June 13.
Sterling Devices Company. (See Meissner, William O., assignor.)
Stevens, Frank, assignor to C. R. Keegan, Philadelphia, Pa. Sound box. No. 1,419,774; June 13.
Stevens, Harold W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controller for electric motors. No. 1,419,178; June 13.
Stevens, Robert L. (See King, F. B., and Stevens.)
Steward, Charles A., Plano, Ill. Mold for concrete machines. No. 1,419,699; June 13.
Stewart, Harry F., Springfield, Ill. Cider press. No. 1,419,700; June 13.
Stock, John J., Philadelphia, Pa. Bumper. No. 1,419,775; June 13.
Stock, Julius A., Cicero, assignor to W. C. Ritchie & Company, Chicago, Ill. Box-closing appliance. No. 1,419,590; June 13.
Stollerman, Louis, Brooklyn, N. Y. Article of tableware. No. 1,419,591; June 13.
Stone, Elmer B., assignor to The American Hardware Corporation, New Britain, Conn. Lock. No. 1,419,526; June 13.
Storm, James A., St. Louis, Mo. Hat holder. No. 1,419,325; June 13.
Storm, James A., St. Louis, Mo. Flat-hook fastener. No. 1,419,326; June 13.
Stralucke, Carl H., New York, N. Y. Shuttle-throwing mechanism. No. 1,419,776; June 13.
Streitelmeier, John E. (See Brown, Robert G., assignor.)
Strombom, Johan F., Chicago, Ill. Vehicle signaling device. No. 1,419,777; June 13.
Strowd, William F. (See Reid, Daniel S., assignor.)
Sturges, Henry G., Utica, N. Y. Four-way-strap buckle. No. 1,419,592; June 13.
Stutsman, Abraham A., Hammond, Ind. Apparatus for preventing scale deposit and foaming in boilers. No. 1,419,701; June 13.
Submarine Signal Company. (See Wood, Edward C., assignor.)
Sullivan, Jerry J., Spokane, Wash. Portable electric lamp. No. 1,419,327; June 13.
Summerlin, Lazarus J., Clem, Ga. Cultivator attachment. No. 1,419,477; June 13.
Summit Thread Company. (See Weaver, Lucius E., assignor.)
Sun Shipbuilding Company. (See Cunliffe, Edward T., assignor.)
Szucs, Stephen, assignor of one-third to A. Dudas, Homestead, Pa. Spinning top. No. 1,419,651; June 13.
Szymkiewicz, Maciej, Jersey City, N. J. Utensil. No. 1,419,423; June 13.
Tartrais, Eugène H., Maisons-Laffitte, France. Combustion chamber for internal-combustion engines. No. 1,419,702; June 13.
Taylor, James H., and E. F. La Fray, Detroit, Mich. Electrical-control railway gate. No. 1,419,424; June 13.
Taylor-Wharton Iron and Steel Company. (See Seyms, Robert W., assignor.)
Taylor, William. (See Teahen, J. M., and Taylor.)
Taylor-Wilson Manufacturing Company. (See Wilson, Edgar H., assignor.)
Teahen, James M., Detroit, Mich., and W. Taylor, Ford, Ontario, Canada; said Taylor assignor to said Teahen. Water closet. No. 1,419,328; June 13.
Tebbetts, Harry O., Waterville, Me. Mail and coin holding device. No. 1,419,179; June 13.
Terr, Joseph, assignor to The Marathon Tire & Rubber Company, Cuyahoga Falls, Ohio. Bag. No. 1,419,425; June 13.
Texas Company, The. (See Nicholson, John, assignor.)
Thiry, Edward, Pasadena, Calif. Flushing device for closets. No. 1,419,426; June 13.
Thompson, Elmer B., and E. B. Carr, assignors to Thompson Manufacturing Company, Des Moines, Iowa. Transferring liquids. No. 1,419,478; June 13.
Thompson, Louis W., Schenectady, N. Y., assignor to General Electric Company. Automatic regulating system. No. 1,419,778; June 13.
Thompson Manufacturing Company. (See Thompson, E. B., and Carr, assignors.)
Thompson, Ralph E., Brookline, Mass. Pile wire. No. 1,419,527; June 13.
Thompson, Samuel H., Los Angeles, Calif. Toothbrush sterilizer and retainer. No. 1,419,593; June 13.
Thomson, Procter, and M. J. Whelan, Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Aeronautical propeller. No. 1,419,180; June 13.
Thorne, Josiah C., San Juan, Calif. Calendar. No. 1,419,779; June 13.
Timken Roller Bearing Company. (See Buckwalter, Tracy V., assignor.)
Tittle, Reuben D., Springfield, Ohio. Washing machine. No. 1,419,427; June 13.
Todd, Horris W., Drumright, Okla. Rod socket. No. 1,419,780; June 13.
Toledo Scale Company. (See Ulrich, Edward F., assignor.)
Topp, James, assignor to Eberson-Topp, Inc., Chicago, Ill. Wind chest and valve action for organs. No. 1,419,703; June 13.
Trimmer, Ray F. (See Putnam, C. V., and Trimmer.)
Trippensee, Christ. W., Jefferson City, Mo. Piston ring. No. 1,419,781; June 13.
Turner, Johnston, Sheffield, England. Dowel. No. 1,419,652; June 13.
Ulrich, Edward F., assignor to Toledo Scale Company, Toledo, Ohio. Piston-ring-testing machine. No. 1,419,428; June 13.
Underwood Computing Machine Company. (See Resch, Henry, assignor.)
Underwood Typewriter Company. (See Davidson, Joshua E., assignor.)
Underwood Typewriter Company. (See Kurowski, Alfred G. F., assignor.)
Underwood Typewriter Company. (See Smith, Jesse A. B., assignor.)
Underwood Typewriter Company. (See Waldheim, John, assignor.)
Union-Special Maschinenfabrik Gesellschaft mit beschrankter Haftung. (See Maier, Karl, assignor.)
Union Switch & Signal Company, The. (See Lewis, Lloyd V., assignor.)

United Shoe Machinery Corporation. (See Bates, Arthur, assignor.)
United Shoe Machinery Corporation. (See Brock, Matthias, assignor.)
United Shoe Machinery Corporation. (See Glidden, Harvey L., assignor.)
United Shoe Machinery Corporation. (See Knight, Ralph F., assignor.)
Universal Electric Welding Company. (See Lachman, Laurence S., assignor.)
Vaile Kimes Company, The. (See Boe, Harry F., assignor.)
Vale, Ruby R., Milford, Del. Vehicle wheel. No. 1,419,329; June 13.
Valve Bag Company, The. (See Hartman, Louis H., assignor.)
Vandusen, Sadie, A., et al. (See Nelson, Joyce C., assignor.)
Van Dyke, Frank G., Detroit, Mich. Electric heater. No. 1,419,330; June 13.
Van Meter, James W., San Francisco, Calif. Portable apparatus for generating poisonous gases. No. 1,419,653; June 13.
Veenschoten, Vincent V., assignor to Northern Equipment Company, Erie, Pa. Fluid-pressure controller. No. 1,419,331; June 13.
Vickers Limited. (See McKechnie, James, assignor.)
Viscoloid Company, The. (See Person, Earl R., assignor.)
Vissering, Harry, & Company. (See Anderson, Harry T., assignor.)
Voisin, Gabriel, assignor to Societe Anonyme Des Aeroplanes G. Voisin, Paris, France. Hood for vehicles. No. 1,419,704; June 13.
Waern, Adolph W., Brooklyn, assignor to Joseph H. Wallace & Co., New York, N. Y. Mechanical hoist. No. 1,419,181; June 13.
Wacker, Frederick G., Chicago, Ill., assignor to Detroit Range Boiler & Steel Barrel Company, Detroit, Mich. Making hooped metallic receptacles. No. 1,419,705; June 13.
Wade, Henry M., Frederick, Okla. Separator. No. 1,419,429; June 13.
Wadsworth, Frank L. O., assignor to A. Kingsbury, Pittsburgh, Pa. Bearing. No. 1,419,782; June 13.
Wait, Henry H., Chicago, Ill., assignor to Midwest Engine Company, Indianapolis, Ind. Lubrication for steam turbines. No. 1,419,706; June 13.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,419,182; June 13.
Walker, Cyrus M., Kansas City, Mo. Cuff. No. 1,419,332; June 13.
Wallace, Joseph H., & Co. (See Waern, Adolph W., assignor.)
Wanstall, William, New York, N. Y. Valve for steam traps. No. 1,419,784; June 13.
Ward, Thomas W., Watertown, and B. F. Mellen, Felts Mills, N. Y. Pulp-stone burr. No. 1,419,785; June 13.
Warr, Harold G., Park Ridge, assignor to The P & M Company, Chicago, Ill. Rail anchor. No. 1,419,333; June 13.
Waterer, Harold C., Southall, assignor to L. P. Driscoll, Faling, London, England. Steadying device for lathes. No. 1,419,786; June 13.
Wathey, Arthur, Cleveland, Ohio. Air-distributing box for stokers. No. 1,419,183; June 13.
Watrous, Clifford M., assignor to Gong Bell Manufacturing Company, East Hampton, Conn. Toy telephone. No. 1,419,902; June 13.
Watrous, Denton J., assignor to Airdry Corporation, Groton, N. Y. Drying apparatus. No. 1,419,707; June 13.
Watson, Alexander, Toronto, Ontario, Canada. Truck. No. 1,419,184; June 13.
Watt, Edgar H., West Newton, Pa. Pick. No. 1,419,787; June 13.
Wattel, Achille L. F., Sevres, France. Device for attaching the suspension springs of automobiles. No. 1,419,788; June 13.
Weaver, Lucius E., assignor to Summit Thread Company, East Hampton, Conn. Sewing-machine bobbin case. No. 1,419,185; June 13.
Webb, Robert T., St. Louis, Mo., assignor of one-fourth to G. W. Reed, Jr., and one-fourth to L. D. Wyant, Tulsa, Okla. Automatic safety cut-off. No. 1,419,334; June 13.
Webb, Thomas, Ladysmith, British Columbia, Canada. Cable-cutting device. No. 1,419,789; June 13.
Webb, Wilfred L. (See Crossley, K. L., and Webb.)
Webber, Victor, Cleveland, Ohio. Hinge. No. 1,419,479; June 13.
Webster, David L., Boston, Mass., and H. N. Russell, Princeton, N. J. Drift sight. No. 1,419,335; June 13.
Weddle, Ludie E., Eldorado, Okla. Ring-groove cleaner. No. 1,419,790; June 13.
Wehrman, William G., Ludlow, Ky., assignor to C. Keck, Crescent Springs, Ky. Hinge joint. No. 1,419,791; June 13.
Weil, Leopold, Hamburg, Germany. Producing high-percentage pure anthracene. No. 1,419,186; June 13.
Weinhart, Howard W., Elizabeth, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device. No. 1,419,528; June 13.
Wenzelmann, Gustave, Galesburg, Ill. Scale. No. 1,419,336; June 13.
Werner, John, & Sons, Inc. (See Werner, Theodore, assignor.)
Werner, Theodore, assignor to John Werner & Sons, Inc., Rochester, N. Y. Sirup cooler. No. 1,419,337; June 13.
Western Electric Company Incorporated. (See Fischer, Frederick C., assignor.)
Western Electric Company Incorporated. (See Goff, Harold W., assignor.)
Western Electric Company Incorporated. (See Harlow, John B., assignor.)
Western Electric Company. (See Hartley, Ralph V. L., assignor.)
Western Electric Company. (See Keckler, Charles W., assignor.)
Western Electric Company Incorporated. (See Weinhart, Howard W., assignor.)
Western Electric Company Incorporated. (See Wilson, William, assignor.)
Westinghouse Electric & Manufacturing Company. (See Bethel, Claude, assignor.)
Westinghouse Electric and Manufacturing Company. (See Coulson, John, assignor.)
Westinghouse Electric & Manufacturing Company. (See Kasley, Alexander T., assignor.)
Westinghouse Electric and Manufacturing Company. (See Lehr, Edwin, assignor.)
Westinghouse Electric and Manufacturing Company. (See Schmidt, Henry F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Staege, Stephen A., assignor.)
Westinghouse Lamp Company. (See Lederer, Anton, assignor.)
Westinghouse Union Battery Company. (See Norris, Paul E., assignor.)
Wheary, George H., Racine, Wis. Locking means for trunk drawers. No. 1,419,594; June 13.
Wheatley, Thomas W., Shickshinny, Pa. Brake-controlling dash pot. No. 1,419,430; June 13.
Whelan, Michael J. (See Thomson, P., and Whelan.)
White, D'Orsay M., assignor to Cadillac Motor Car Company, Detroit, Mich. Hydrocarbon motor. No. 1,419,654; June 13.
White, Fred E., assignor to Central Oil & Gas Stove Co., Gardner, Mass. Gas stove. No. 1,419,792; June 13.
White, Joseph, Piscataway Township, Union County, assignor of one-half to Hall Printing Press Company, Dunellen, N. J., and one-half to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Sheet-registering mechanism. No. 1,419,595; June 13.
White, Thomas K., Sioux Falls, S. Dak. Trench-forming machine. No. 1,419,480; June 13.
Whyte, David, Gisborne, New Zealand. Conversion of sulphate of lead water paste into oil paste. No. 1,419,655; June 13.
Wiehle, Edward W. (See Hardin, R. S., and Wiehle.)
Wieneke, John E., Union, Mo. Measuring grocery bin. No. 1,419,338; June 13.
Wild, Frank X., Amherst, Wis. Closet. No. 1,419,339; June 13.
Wilder, Laurence R. (See Miller, John A., assignor.)
Wile, Jerome. (See McCarthy, Florence, assignor.) (Reissue.)
Will, Charles J., Granite City, Ill. Sausage-linking machine. No. 1,419,529; June 13.
Williams, Charles J., Seattle, Wash. Trap nest. No. 1,419,340; June 13.
Williams, Frank P., Detroit, Mich. Sheet-metal cabinet. No. 1,419,481; June 13.
Williams, Frederic S. (See Smith, W. S., and Williams.)
Williams, Ralph E., Los Angeles, Calif. Bracket and limiting device for spotlights. No. 1,419,431; June 13.
Williams, William R., Owensboro, Ky. Velocipede. No. 1,419,341; June 13.
Willis, Edward J., Richmond, Va. Lathe tool. No. 1,419,432; June 13.
Wilson, David W., West Orange, N. J. Hair trimming or cutting attachment for safety razors. No. 1,419,187; June 13.
Wilson, Edgar H., Chartiers Township, Allegheny County, assignor to Taylor-Wilson Manufacturing Company, McKees Rocks, Pa. Poker for gas producers. No. 1,419,342; June 13.
Wilson, Frederick D., and R. C. Livesay, assignors to Deere and Company, Moline, Ill. Power-propelled harvester. No. 1,419,433; June 13.
Wilson, Frederick D., assignor to Deere and Company, Moline, Ill. Steering wheel. No. 1,419,434; June 13.
Wilson, Harvey B., De Witt, Ill. Crank holder. No. 1,419,793; June 13.
Wilson, J. Pearl, Jacksonville, Fla. Corner lock for crates and boxes. No. 1,419,794; June 13.
Wilson, William, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Thermionically-active substance. No. 1,419,530; June 13.
Winchester Repeating Arms Company. (See Gallagher, George D., assignor.)
Winget Limited. (See Kiddie, Frederick W., assignor.)
Witzel, Albert, Ludwigsburg, Germany. Rubber tire. No. 1,419,343; June 13.
Wood, David T. B., London, England. Apparatus for filing cards. No. 1,419,656; June 13.
Wood, Edward C., Somerville, assignor to Submarine Signal Company, Boston, Mass. Microphone mounting. No. 1,419,596; June 13.

Wood, Frank W., Montclair, N. J. Signaling apparatus. No. 1,419,708; June 13.
Wood, Henry A. W., New York, N. Y., and C. Nordfors, Jersey City Heights, N. J., assignors to Wood Newspaper Machinery Corporation, New York, N. Y. Folding delivery mechanism. No. 1,419,188; June 13.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Continuous ink-distributing mechanism. No. 1,419,189; June 13.
Wood Newspaper Machinery Corporation. (See Wood, H. A. W., and Nordfors, assignors.)
Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)
Wood, William G., San Francisco, Calif., assignor to Berkeley Light Corporation, Carson City, Nev. Headlight. No. 1,419,482; June 13.
Woodring, Alberto I., assignor, by mesne assignments, to National Safety Devices Company, Waterloo, Iowa. Signal-governing apparatus. No. 1,419,435; June 13.
Woodstock Typewriter Company. (See Hokanson, Otto A., assignor.)
Woodward Automatic Control Corporation. (See Woodward, Garrett W., assignor.)
Woodward, Garrett W., assignor to Woodward Automatic Control Corporation, Chicago, Ill. Button block. No. 1,419,597; June 13.
Worthington, John V., Axminster, assignor to The Dunlop Rubber Company, Limited, Regent's Park, London, England. Manufacture of pneumatic tire casings. No. 1,419,907; June 13.
Wright, David C., and E. W. Cornell, Indianapolis, Ind. Ticket and label printing machine. No. 1,419,345; June 13.
Wright, George W., Los Angeles, Calif. Pump. No. 1,419,436; June 13.
Wyant, Lynton D., et al. (See Webb, Robert T., assignor.)
Yerger, William C., West Philadelphia, Pa. Golf-stick handle. No. 1,419,795; June 13.
You, Wong, San Francisco, Calif. Carrier and retractor for wheel rims and tires. No. 1,419,531; June 13.
Zahler, Joseph, Hudson, Wis. Automobile tire and rim lock. No. 1,419,796; June 13.
Zelazo, Stanley J., Adams, Mass. Table lamp. No. 1,419,598; June 13.
Zipoy, Frank, Minneapolis, Minn. Memorandum pad. No. 1,419,190; June 13.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Bauman, Max, New York, N. Y. Ring or similar article of manufacture. No. 61,058; June 13.
Dahl, Thure E., New York, N. Y. Loop for lighting fixtures. No. 61,059; June 13.
Dahl, Thure E., New York, N. Y. Candle cup for lighting fixtures. No. 61,060; June 13.
Dahl, Thure E., New York, N. Y. Bracket back for lighting fixtures. No. 61,061; June 13.
Dahl, Thure E., New York, N. Y. Arm for electric fixtures. No. 61,062; June 13.
Dahl, Thure E., New York, N. Y. Plate for lighting fixtures. No. 61,063; June 13.
Dahl, Thure E., New York, N. Y. Band for lighting fixtures. No. 61,064; June 13.
Dahl, Thure E., New York, N. Y. Electric fixture. No. 61,065; June 13.
Dahl, Thure E., New York, N. Y. Electric arm for lighting fixtures. Nos. 61,066–7; June 13.
Dahl, Thure E., New York, N. Y. Arm for lighting fixtures. No. 61,068; June 13.
Dahl, Thure E., New York, N. Y. Pan for candle cups for lighting fixtures. No. 61,069; June 13.
Dahl, Thure E., New York, N. Y. Loop for lighting fixtures. No. 61,070; June 13.
Dahl, Thure E., New York, N. Y. Candle cup for lighting fixtures. No. 61,071; June 13.
Dahl, Thure E., New York, N. Y. Canopy for lighting fixtures. No. 61,072; June 13.
Dahl, Thure E., New York, N. Y. Band for lighting fixtures. No. 61,073; June 13.
Schumaker, Alvin. (See Wendt, Fred H., assignor.)
Tokarski, Leonard, Harvey, Ill. Kitchen cabinet. No. 61,074; June 13.
Wendt, Fred H., assignor of one-third to A. Schumaker, Watertown, Wis. Bottle. No. 61,075; June 13.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Alshuler, Charles Manufacturing Company, The, Racine, Wis. Work and dress shirts for men. No. 156,113; June 13.

American Abrasive Metals Company, New York, N. Y. Stair treads and door saddles. No. 155,916; June 13.

American Apparel Corporation, New York, N. Y. Frocks. No. 156,090; June 13.

American Brush Company, Washington, D. C. Nonelectric vacuum cleaners. No. 155,917; June 13.

American Lady Corset Co., Detroit, Mich. Brassières, corsets, corset waists, corset covers, dresses, waists, etc. No. 156,091; June 13.

American Lady Corset Co., Detroit, Mich. Certain articles of clothing. No. 156,092; June 13.

American Lady Corset Co., Detroit, Mich. Corsets, brassières, corset waists, girdles, hose supporters, dresses, hosiery, and underwear. Nos. 156,093–7; June 13.

American Steel & Wire Company of New Jersey, Cleveland, Ohio. Certain aerial tramways and tramway carriers and tools and shafting. No. 155,918; June 13.

American Tobacco Company, The, New York, N. Y. Smoking and chewing tobacco and cigarettes. No. 155,919; June 13.

American Wholesale Corporation (Baltimore Bargain House), Baltimore and Cumberland, Md. Certain articles of clothing. No. 155,920; June 13.

American Wringer Company, The, Providence, R. I., and New York and Auburn, N. Y. Wringers. No. 21,591; renewed Aug. 9, 1922.

American Wringer Company, The, Providence, R. I., and New York and Auburn, N. Y. Wringers. No. 21,593; renewed Aug. 9, 1922.

Ammenhouser, Anna C., New York, N. Y. Hats for women. No. 155,921; June 13.

Anderson-Tully Company, Memphis, Tenn. Lumber. No. 155,922; June 13.

Arenjay Hat Co. Inc., New York, N. Y. Men's straw hats. No. 156,098; June 13.

Ashaway Line & Twine Manufacturing Company, Ashaway, R. I. Fishing lines. No. 156,099; June 13.

Ashley Railway Safety Tie and Construction Corporation, The, New York, N. Y. Reinforced-concrete ties for railways. No. 155,924; June 13.

Aulmann, Robert C., Los Angeles, Calif. Record-sheet holder to be attached to automobile steering wheels and blank record sheets. No. 155,925; June 13.

Baum, Kravat & Baum, New York, N. Y. Ladies' and misses' dresses. No. 155,926; June 13.

Beatty Coal Company, Kansas City, Mo. Coal. No. 155,927; June 13.

Beck Novelty Co. Inc., New York, N. Y. Sweaters and scarfs. No. 156,100; June 13.

Benjamin & Johnes, Newark, N. J. Corsets, brassières, underbodices, corset covers, and camisoles. No. 156,101; June 13.

Bergmann, Dr. Friedrich, G. m. b. H., Querfurt, Prussia, Germany. Sweet turnip and beet seed. No. 155,928; June 13.

Bias, Stanley C., Brooklyn, N. Y. Candy confections. No. 155,929; June 13.

Bill, Edward W., New York, N. Y. Men's and boys' hats. Nos. 155,930–1; June 13.

Birkenstein, S., & Sons, Incorporated. Dusting and cleaning cloths. No. 156,102; June 13.

Bloedel Donovan Lumber Mills, Seattle and Bellingham, Wash. Certain construction materials. No. 155,932; June 13.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. Nos. 156,103–8; June 13.

Bound Brook Oil-Less Bearing Company, Boundbrook, N. J. Engine and machine bearings and bushings. No. 155,933; June 13.

Bradley, C. C., & Son, Syracuse, N. Y. Power hammers. No. 155,934; June 13.

Brody, F., & Sons Co., Des Moines, Iowa. Playsuits. No. 156,109; June 13.

Brooklyn Shield & Rubber Co. Dress shields. No. 156,110; June 13.

Brown Shoe Company, Inc., The, St. Louis, Mo. Leather and leather and fabric shoes. No. 156,111; June 13.

Brown Shoe Company, Inc., The, St. Louis, Mo. Leather shoes. No. 156,112; June 13.

Brown, Thos. H., Philadelphia, Pa. Hosiery. No. 155,935; June 13.

Burgess-Norton Mfg. Co., Geneva, Ill. Automobile and engine parts and accessories—namely, piston pins, ball bearings, etc. No. 155,936; June 13.

Burnstine and Nachman, New York, N. Y. Knitted underwear and hosiery. No. 155,937; June 13.

Burton Bros. & Co., New York, N. Y. Petticoats. No. 155,938; June 13.

Busbee, T. O., Chattanooga, Tenn. Coal. No. 155,939; June 13.

California Casing Co., San Francisco, Calif. Pork-sausage casings. No. 155,940; June 13.

California Co-operative Canneries, San Jose, Calif. Canned fruits. Nos. 155,941–2; June 13.

Caravel Company, New York, N. Y. Dyestuffs and beeswax. No. 155,943; June 13.

Carter, J. W., Chicago Co., Chicago, Ill. Boots, shoes, and slippers. No. 155,944; June 13.

Clark, A. L., & Co., Inc., New York, N. Y. Dressmakers' pins and bone rings. No. 156,114; June 13.

Cleveland, Reginald M., New York, N. Y. Thoroughbred dogs. No. 155,945; June 13.

Coast Fishing Co., Inc., Wilmington, Calif. Canned fish. No. 156,115; June 13.

Cohen, J. Robinson, & Bro., New York, N. Y. Eyeglasses. No. 156,144; June 13.

Cohen-Sulkis Shoe Co., Inc., Boston, Mass. Shoes, overshoes, galoshes, moccasins, rubber boots, etc. No. 156,116; June 13.

Compoloid Products Corporation, Wilkes-Barre and Dorranceton, Pa. Composition flooring and magnesite stucco. No. 155,946; June 13.

Condensed Bluing Co., The, Chicago, Ill. Ammonia. No. 155,947; June 13.

Craddock-Terry Company, Lynchburg, Va. Children's shoes. No. 155,948; June 13.

Curry, Angus T., Washington, D. C. Rat poison. No. 156,117; June 13.

Detroit White Lead Works, Detroit, Mich. Tar compounds and rubber compositions for coating and cementing roofs, and concrete and cement hardeners. No. 155,949; June 13.

Diefendorf, Willias H., Syracusé, N. Y. Gears. No. 155,950; June 13.

Dobson, John & James, Inc., New York, N. Y. Plush coats for ladies and misses. Nos. 155,988–90; June 13.

Dryden Rubber Company, Chicago, Ill. Rubber heels and soles. No. 156,118; June 13.

Duffy-Mott Company. (See Duffy, Mountfort & Greene Cider Company, assignor.)

Duffy, Mountfort & Greene Cider Company, Newark, N. Y., assignor to Duffy-Mott Company, Inc. Cider vinegar. No. 21,944; renewed Nov. 8, 1922.

Dunhill, Alfred, London, England. Tobacco, cigars, and cigarettes. Nos. 155,951–2; June 13.

Dunsworth, Alice M., Oakland, Calif. Children's bibs and aprons. No. 155,953; June 13.

Edwards, A. M., Atlanta, Ga. Tonic and blood purifier. No. 155,954; June 13.

Erhard, F. W., Galveston, Tex. Blank books, loose-leaf ledger sheets, billheads, statements, etc. No. 155,955; June 13.

Essence de L'âme Perfume Co. Inc., New York, N. Y. Perfumed paper, writing paper, envelopes, and visiting cards. No. 155,956; June 13.

Etablissements Reynier. (See Reynier & Cie., assignor.)

Euclid Candy Company, The, Cleveland, Ohio. Candy. No. 155,957; June 13.

Everybody's Garter Co., New York, N. Y. Garters. No. 155,958; June 13.

Fair, The, Chicago, Ill. Leather shoes. No. 156,119; June 13.

Fair, The, Chicago, Ill. Men's hats. No. 156,120; June 13.

Falk Tobacco Company Incorporated, New York, N. Y. Cigars, cigarettes, smoking and chewing tobacco. No. 155,959; June 13.

Ferré, Docteur H., & Cie., Paris, France. Medicines for venereal diseases. No. 155,960; June 13.

Filene's, Wm., Sons Company, Boston, Mass. Boots and shoes. No. 155,961; June 13.

Filene's, Wm., Sons Company, Boston, Mass. Women's, misses', girls', and children's hats. No. 155,962; June 13.

Ford Roofing Products Co., Chicago, Ill. Prepared roofing. No. 155,963; June 13.

Fort Wayne Engineering & Manufacturing Co., Fort Wayne, Ind. Pumping equipment and water systems. No. 155,964; June 13.

Freeman, Alida G., New York, N. Y. Hats for women. No. 155,965; June 13.

Funk & Wagnalls Company, New York, N. Y. Publications relating to the study of languages. No. 156,121; June 13.

Garrett & Company, Inc., Brooklyn, N. Y. Flavoring extracts for food. No. 155,966; June 13.

Gillman, Eugene, Seattle, Wash. Women's house dresses and dress aprons and children's rompers, creepers, and bloomer dresses. No. 155,967; June 13.

Gladding, B. F., & Co. Inc., South Otselic, N. Y. Fishing lines. Nos. 156,122–5; June 13.

Godwin, A. L., Products Company, Los Angeles, Calif. Custard powder. No. 155,968; June 13.

Gomez & Sloan, Inc., New York, N. Y. Certain cutlery, machinery, and tools. No. 155,969; June 13.

Greening Nursery Co., The, Monroe, Mich. Certain nursery products. No. 155,971; June 13.

Griscom-Russell Company, The, New York, N. Y. Air and gas compressors, vapor condensers, and liquid evaporators. No. 155,972; June 13.
Guthmann, Carpenter & Telling, Chicago, Ill. Leather shoes and oxfords. No. 156,126; June 13.
Haffner Brothers Company, The, Cincinnati, Ohio. Harness leather and sole leather. No. 155,973; June 13.
Hagerstown Shoe & Legging Co. Inc., Hagerstown, Md. Leather shoes. No. 156,127; June 13.
Hanna, Walter A., Wilmette, Ill. Key-locking radiator caps for automobiles. No. 155,974; June 13.
Hardy, F. A., & Company, Chicago, Ill. Eyeglass bridges, temple frames, and mountings. No. 155,975; June 13.
Harrison, William H., New York, N. Y. Rubbing liniment for treatment of sprains and soreness of muscles. No. 155,976; June 13.
Hart, Leo, Inc., New York, N. Y. Shoes made wholly or in part of leather. No. 156,128; June 13.
Heebner, Ernest L., New York, N. Y., and Altoona, Wash. Canned salmon and tuna. No. 155,977; June 13.
Henderson, Peter, & Co., New York, N. Y. Agricultural and horticultural seeds. No. 155,978; June 13.
Heppes-Nelson Roofing Company, The, Chicago, Ill., assignor to The Richardson Company, Lockland, Ohio. Certain construction materials. No. 155,979; June 13.
Herzog, Albert, New York, N. Y. Textile shoe fabrics, Certain. No. 155,980; June 13.
Hess and Hopkins Leather Company, The, Rockford, Ill. Leather. No. 156,129; June 13.
Hiawatha Lumber Co., Oklahoma, Okla. Wooden posts, ties, etc. No. 155,981; June 13.
Holland Shoe Co., Holland, Mich. Leather boots and shoes and boot and shoe soles. No. 156,130; June 13.
Hudson, R. A., Company, Incorporated, Auburn, N. Y. Face and hand creams and lotions. No. 155,982; June 13.
Irwin Cloak Company, Cincinnati, Ohio. Certain articles of ladies' wearing apparel. No. 156,131; June 13.
Irwin, Thomas C., Chicago, Ill. Coal. No. 155,985; June 13.
Ivens, C. A. P., Nymegen, Netherlands. Cameras, optical lenses, sensitized photographic films, etc. No. 155,986; June 13.
Jacobson, F., & Sons, New York, N. Y. Dress and work shirts, pyjamas and nightgowns. No. 156,132; June 13.
Jaquet, Daniel, Paris, France. Toilet preparations, Certain. No. 155,987; June 13.
Johnson, George J., Cambridge, Mass. Chocolate confectionery. No. 155,991; June 13.
Johnson, John O., Chicago, Ill. Bird gravel. No. 155,993; June 13.
Johnson, John O., Chicago, Ill. Lawn-grass seed. No. 155,992; June 13.
Kelly, John, Inc., Rochester, N. Y. Women's shoes. No. 156,133; June 13.
Killian, W. H., Co., The, Baltimore, Md. Canned foodstuffs. No. 155,994; June 13.
Kline Apparel Company, St. Louis, Mo. Certain articles of ladies' wearing apparel. No. 156,134; June 13.
Kline, Fred J., Long Island City, N. Y. Paper clips. No. 155,995; June 13.
Kline, Fred J., Long Island City, N. Y. Paper fasteners, covers and folders for binding and holding papers together, desk files, etc. Nos. 155,996–7; June 13.
Kummerlander, Charles G., Chicago, Ill. Yeast products in the form of powder or tablets. No. 155,998; June 13.
Labinger & Gerstein, Hartford, Conn. Dresses, middy blouses. No. 155,999; June 13.
Levussove, Louis, New York, N. Y. Hair. No. 156,135; June 13.
Lewis, Edgar P., Boston, Mass. Candies and chocolates. No. 156,000; June 13.
Little Falls Felt Shoe Company, Little Falls, N. Y. Felt shoes and slippers. No. 156,001; June 13.
Lord & Taylor, New York, N. Y. Corsets. No. 156,002; June 13.
Lounsbury Soule Co., The, New York, N. Y. Leather boots and shoes. No. 156,003; June 13.
McCreery, James, & Company, New York, N. Y. Certain household furniture. No. 156,136; June 13.
Mackenzie, Robt. F., Co., The, Cleveland, Ohio. Candy. No. 156,004; June 13.
Madolene Pickle Corporation, Newport News, Va. Pickles. No. 156,005; June 13.
Malkins, H., Sons, New York, N. Y. Shoes, boots, slippers, and sandals. No. 156,137; June 13.
Marcus, Forscher & Co., New York, N. Y. Sole leather, upper leather, hides, and skins. No. 156,007; June 13.
Mari-Bell Sweets, Minneapolis, Minn. Candies. No. 156,006; June 13.
Masco Drug Company, Boston, Mass. Certain medicinal tablets. No. 156,008; June 13.
Maurice River Packing Co., Camden, N. J. Canned chowder. No. 156,009; June 13.
Mayhew Steel Products Inc., New York, N. Y. Hack-saw blades. No. 156,010; June 13.
Meyer & Stein, New York, N. Y. Men's dress, negligee, and work shirts. No. 156,138; June 13.
Meyer, Harold J., St. Joseph, Mo. Salted peanuts, almonds, pecans, and filberts. No. 156,011; June 13.
Midwest Steel & Supply Company, Inc., New York, N. Y. Laths. No. 155,013; June 13.
Midwest Steel & Supply Company, Inc., New York, N. Y. Metal laths. No. 156,012; June 13.
Milligan, G. D., Grocer Co., Springfield, Mo. Overalls, work and dress shirts, khaki pants, etc. No. 156,139; June 13.
Minnesota Macaroni Co., St. Paul, Minn. Macaroni. No. 156,014; June 13.
Motor-Kleen Corporation, Long Island City, N. Y. Carbon remover. No. 156,140; June 13.
Mulhern, John, Company, San Francisco, Calif. Nonalcoholic, noncereal, maltless beverages and sirups for making same. No. 156,015; June 13.
Muratti, B., Sons and Company Limited, Manchester, England. Cigarettes. No. 156,016; June 13.
Naamlooze Vennootschap Droste's Cacao-en Chocoladefabrieken, Haarlem, Netherlands. Pastils of chocolate. No. 156,017; June 13.
National Licorice Company, Brooklyn, N. Y. Licorice tablets or wafers. No. 156,018; June 13.
National Ring Traveler Co., Providence, R. I. Ring travelers. Nos. 156,019–20; June 13.
New England Confectionery Company, Boston, Mass. Candy. Nos. 156,021–30; June 13.
New Process Multicastings Company. (See Wood, John R., assignor.)
Nott-Atwater Company, Spokane, Wash. Steam-pipe coverings and insulations, roofing cements, and prepared roofings. No. 156,031; June 13.
Old Mission Portland Cement Company, San Francisco and San Juan Bautista, Calif. Portland cement. No. 156,032; June 13.
Onita Specialty Co., Brooklyn, N. Y. Bath robes, sacks, buntings, flannelettes. No. 156,033; June 13.
Orange-Smash Co., Birmingham, Ala. Nonalcoholic, maltless, carbonated beverages and sirups for manufacture of same. No. 156,141; June 13.
Oregon Brass Works, Portland, Oreg. Journal bearings. No. 156,034; June 13.
O'Shea Knitting Mills, Chicago, Ill. Bathing suits and playsuits. No. 156,035; June 13.
Poldina Hut, Prague and Kladno, Czecho-Slovakia, assignor to Poldi Steel Corporation of America, New York, N. Y. Steel in blocks, bars, and forgings for all kinds of machines, etc. Nos. 155,983–4; June 13.
Preusser, Serena B., Belvedere, Calif. Children's garments. No. 156,036; June 13.
Raymond, Le Roy, Ocean Park, Calif. Animal toy made of wood. No. 156,037; June 13.
Red River Lumber Company, The, Minneapolis, Minn. Lumber. No. 156,038; June 13.
Red River Lumber Company, The, Minneapolis, Minn. Lumber. No. 156,039; June 13.
Repetto, Angelo, Company, Detroit, Mich. Cement tiles for walls and floors. No. 155,923; June 13.
Reynier & Cie., assignor to Etablissements Reynier, Grenoble, France. Leather gloves. Nos. 156,040–2; June 13.
Richardson Company, The. (See Heppes-Nelson Roofing Company, The, assignor.)
Ridenour-Baker Grocery Company, Kansas City, Mo. Tea. No. 156,043; June 13.
Riedel & Co., Inc., New York, N. Y. Medicinal preparation for use in gonorrhea and genito-urinary inflammations. No. 156,044; June 13.
Rite Form Corset Co., Inc., The, New York, N. Y. Corsets. No. 156,142; June 13.
Romer Axe and Tool Company, Dunkirk, N. Y. Certain tools and cutlery. No. 156,045; June 13.
Root, John R., Terre Haute, Ind. Brick for the wearing surface of road paving. No. 156,046; June 13.
Rosenthal-Ettlinger, H. B., Co., New York, N. Y. Clothing, consisting of coats, trousers, overcoats, mackinaws, etc. No. 156,047; June 13.
Royal Shirt Co., New York, N. Y. Dress, negligee, and work shirts. No. 156,048; June 13.
Rust Engineering Company, The, Baltimore, Md., and Washington, D. C. Brick and concrete chimneys and brick settings for boilers. No. 156,049; June 13.
Schollhorn, Wm., Co., The, New Haven, Conn. Eyelet punches. No. 156,050; June 13.
Scott, Charles H., Company, The, Chicago, Ill. Brassières, bandeaux, corsets, etc. No. 156,051; June 13.
Shel-less Nut Co., Baltimore, Md. Shelled pecan and pecan-nut meats. No. 156,052; June 13.
Shelton, William M., New York, N. Y. Child's wheel push toy. No. 156,053; June 13.
Silent Watchman Corporation, The, New York, N. Y. Time-recording locks. No. 156,054; June 13.
Smith & Hemenway Company, Inc., New York, N. Y., and Irvington, N. J. Glass cutters. No. 156,055; June 13.
Smith-Kirk Candy Co., The, Toledo, Ohio. Chocolates, candies, peanut butter, and bonbons. No. 156,056; June 13.
Smith-Kirk Candy Co., The, Toledo, Ohio. Chocolates and candy. No. 156,057; June 13.
Societe Civile des Heritiers de P. Basset, Tassin la Demi-Lune, France. General analgesic and medicine for neuralgia, toothache, etc. No. 156,058; June 13.
Souter, Nell, Reedley, Calif. Women's, misses', and children's outer garments. No. 156,059; June 13.
Standard Candy Co., Duluth, Minn. Candies. No. 156,060; June 13.
Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J. Certain oils and greases. No. 156,145; June 13.
Stark Bros. Nurseries & Orchards Co., Louisiana, Mo. Fruit, vegetable, and grain seed. No. 156,061; June 13.

Starkweather, Amy R., Amsterdam, N. Y. Underskirts. No. 156,146; June 13.
Stewart-Bartlett Candy Co., Grinnell, Iowa. Candy. Nos. 156,062–3; June 13.
Strimple, John A., Janesville, Wis. Tire pumps. No. 156,064; June 13.
Supreme Orient O. O. H. & P., Schenectady, N. Y. Fezes. No. 156,065; June 13.
Sure Seal Bottle Capper Co., Chicago, Ill. Bottle capping machines. No. 156,066; June 13.
Templeton's Limited, Toronto, Ontario, Canada. Medicine for asthma. No. 156,067; June 13.
Temtor Corn & Fruit Products Co., St. Louis, Mo. Corn sirup with sorghum. No. 156,068; June 13.
Thornhill, Mrs. E. L., Lynchburg, Va. Salted almonds. No. 156,069; June 13.
Threapleton's, Wm. B. Sons, Philadelphia, Pa. Men's, women's, and children's hosiery. No. 156,070; June 13.
Tilson, Max E., New York, N. Y. Perfumes. No. 156,071; June 13.
Titchener, E. H., & Co., Binghamton, N. Y. Certain wire and steel bathroom fixtures. No. 156,072; June 13.
Tucker Duck & Rubber Co., Fort Smith, Ark. Folding cots, stools, and chairs. No. 156,147; June 13.
Tuco Products Corporation, New York, N. Y. Construction materials. No. 156,073; June 13.
Van Degrift's, Los Angeles, Calif. Girls', boys', and babies' shoes. No. 156,148; June 13.
Van Leeuwen, William H., Jr., Grand Rapids, Mich. Overalls, work shirts, mackinaws, etc. No. 156,074; June 13.
Vogeler Bros., Inc., Newark, N. J. Mayonnaise dressing. No. 156,075; June 13.
Wachusett Shirt Co., Leominster, Mass. Men's stiff-bosom, negligee, work, and sport shirts, night robes, and pyjamas. No. 156,149; June 13.
Waight, Fred J., & Co., Washington, D. C. Candy. No. 156,076; June 13.
Wayagamack Pulp & Paper Co. Limited, Three Rivers, Quebec, Canada. Wood, chemical, sulphate, sulphite, soda, and easy-bleaching pulps. No. 156,077; June 13.
Wear-Well Pants Company, Baltimore, Md. Men's and boys' trousers. No. 156,150; June 13.
Weingarten Bros., Inc., New York, N. Y. Corsets. No. 156,151; June 13.
Wenatchee Fruit & Warehouse Co., Inc., Peshastin, Wash. Fresh apples. No. 156,078; June 13.
Wenzelmann, Gustave, Galesburg, Ill. Certain construction materials. No. 156,079; June 13.
West Indies Fruit Importing Co., Chicago, Ill. Canned pineapples. No. 156,080; June 13.
Western Tool & Forge Company, Duluth, Minn. Cold chisels and punches. No. 156,081; June 13.
White-Stokes Company, Inc., Chicago, Ill. Bonbon coating. No. 156,082; June 13.
Wilder, Mae E., Rochester, N. Y. Liquid cosmetics. No. 156,085; June 13.
Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Grinding screens for feed mills. No. 156,086; June 13.
Willys-Overland Company, The, Toledo, Ohio. Internal-combustion engines. No. 156,083; June 13.
Wilson, J. J. & W., Limited, Kendal, England. Clothing for men, women, and boys, hats, caps, and flannel shirts. No. 21,099; renewed May 10, 1922.
Wilson, J. J. & W., Limited, Kendal, England. Piece goods, rugs, horse clothing, wools, worsteds, yarns, and threads. No. 21,100; renewed May 10, 1922.
Winder Manufacturing Co., The, Winder, Ga. Overalls, coats, jumpers, and work shirts. No. 156,084; June 13.
Winship, Boit & Co., Wakefield, Mass., and New York, N. Y. Certain articles of clothing. No. 156,087; June 13.
Wise, Robert Company, The, Cincinnati, Ohio. Shoes. No. 156,143; June 13.
Wood, John R., Irvington, assignor to New Process Multicastings Company, Newark, N. J. Certain heat-retaining material. No. 156,088; June 13.
Wovenright Knitting Company, The, Cleveland, Ohio. Hosiery. No. 156,152; June 13.
Yund, Kennedy & Yund, Amsterdam, N. Y. Knitted coats and jackets. No. 156,089; June 13.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

A/S United Sardine Factories, Bergen, Norway. Canned foods of smoked or salted fish or herring. No. 150,121; June 13.
Acme Shear Company, The, Bridgeport, Conn. Scissors and shears. No. 156,617; June 13.
Allied Factories Corporation, Kansas City, Mo. Toy wagons. No. 160,989; June 13.
American Fruit Products Company. (See Earle, Walter K.)
American Optical Company, Southbridge, Mass. Eyeglasses, spectacles, and ophthalmic lenses. No. 135,392; June 13.
American Wholesale Corporation (Baltimore Bargin House), Baltimore and Cumberland, Md. Work shirts. No. 155,294; June 13.
Andrews & Goodrich, Inc., Boston, Mass. Air-current drying apparatus for manufacturing and industrial operations. No. 155,655; June 13.
Arlatte & Cie., Cambrai, Nord, France. Chicory. No. 157,791; June 13.
Arons, Alexander, doing business as Wearever Hosiery Co., New York, N. Y. Hosiery, men's and women's sweaters, and underwear. No. 155,949; June 13.
Averill Mfg. Corp., New York, N. Y. Dolls. No. 158,667; June 13.
Belasco Mechanics Corporation, New York, N. Y. Apparatus for playing a game. No. 161,027; June 13.
Bell Chemical Co., Defiance, Ohio. Medicinal ointment for congestion of the nose, throat, and chest. No. 142,552; June 13.
Bender, Matthew & Company, Incorporated, Albany and New York, N. Y. Printed books. No. 150,887; June 13.
Bethlehem Steel Company, Bethlehem, Pa. Automobile and truck wheels. No. 145,765; June 13.
Bible Land Cigar Company. (See Morrier, Hormisdas.)
Birtman Electric Company, Chicago, Ill. Electric vacuum cleaners. No. 161,405; June 13.
Blair, J. C., Company, Huntingdon, Pa. Paper for writing and printing purposes, envelopes for correspondence, writing tablets, etc. No. 160,333; June 13.
Blakely Milling Co., Atlanta, Ga. Corn meal. No. 149,122; June 13.
Blekre Tire & Rubber Company, St. Paul, Minn. Automobile tires and tubes of rubber. No. 161,524; June 13.
Bob & Baskind, New York, N. Y. Men's shirts and boys' outer shirts and blouses. No. 152,535; June 13.
Bordeaux & New York Trading Co., New York, N. Y. Sardines. No. 157,881; June 13.
Borden Company, The, New York, N. Y. Evaporated milk. No. 151,698; June 13.
Brewster Sons Company, Newark, N. J. Chocolate, cocoa, milk chocolate dainties, etc. No. 151,860; June 13.
Bromograph A.-G. Mannheim, Mannheim, Germany. Photographic-printing machines and their parts, and sensitized photographic paper. No. 144,010; June 13.
Brown & Bigelow, St. Paul, Minn. Blotters, pencils, and memorandum pads. No. 160,742; June 13.
Bruno, C., & Son, Inc., New York, N. Y. Violins, violin bows, chin rests, cases, pegs, strings, etc. No. 156,675; June 13.
Butero, Sam, Omaha, Nebr. Ice cream. No. 157,912; June 13.
California Packing Corporation, San Francisco, Calif. Canned peaches. No. 155,045; June 13.
Calton Manufacturing Company, Spartanburg, S. C. Hosiery. No. 151,079; June 13.
Capital City Products Company, The, Columbus, Ohio. Butter. No. 154,918; June 13.
Catholic Students' Mission Crusade, Cincinnati, Ohio. Magazine published quarterly. No. 158,224; June 13.
Central Electric Company, Chicago, Ill. Lighting fixtures. No. 160,749; June 13.
Cherry Blossom Mfg. Co., Newton, Iowa. Nonalcoholic, noncereal, maltless beverages and sirups for making same. No. 159,935; June 13.
Cherry Blossom Mfg. Co., Newton, Iowa. Nonalcoholic, noncereal, maltless beverages and sirups for making same. No. 159,939; June 13.
Cherry Blossom Mfg. Co., Newton, Iowa. Nonalcoholic, noncereal, maltless beverages and sirups for making same. Nos. 159,947–8; June 13.
Cherry Blossom Mfg. Co., Newton, Iowa. Nonalcoholic, noncereal, maltless beverages and sirups for making same. Nos. 159,952–3; June 13.
Choc-Lo Co., Inc., The, New York, N. Y. Nonalcoholic beverage. No. 160,182; June 13.
Columbian Bronze Corporation, Freeport and New York, N. Y. Self-contained electric generator apparatus. No. 160,872; June 13.
Cozy Baby Carriage Company, Minneapolis, Minn. Baby carriages, baby-carrying baskets or bodies, and automobile baby carriers. No. 162,610; June 13.
Craddock Terry Company, Lynchburg, Va. Women's leather shoes. No. 158,223; June 13.
Crandall Pettee Co., The, New York, N. Y. Ice-cream powder. No. 136,185; June 13.
Crooks, Harold, doing business as Verso-Tone Medicine Co., Terre Haute, Ind. General system tonic, liniment, grip tablet. No. 156,187; June 13.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Crosbie, Matthew, doing business as James Crosbie & Son, New York, N. Y. Linen and cotton goods. No. 152,699; June 13.

Crown Supply Company Inc., New York, N. Y. Dental cream, paste, powder, and liquid cleaner, cream. No. 146,867; June 13.

Dalton, Charles J., doing business as C. J. Dalton Company, New York, N. Y. Rubber tires. No. 158,384; June 13.

Daniels and Fisher Stores Company, The, Denver, Colo. Face rouge. No. 157,359½; June 13.

Day, Son & Hewitt, Limited, London, England. Blood purifiers, tonics, and conditioners for horses, cows, sheep, etc. No. 154,353; June 13.

Dayton Company, The, Minneapolis, Minn. Golf balls. No. 163,329; June 13.

Delano, Bartlett and Dexter Inc., Boston, Mass. Khaki in the piece. No. 155,397; June 13.

Dermatological Laboratories, Chicago, Ill. Preparation for cleaning and softening the skin. No. 157,989; June 13.

Di Salvo, G., & A. Patera, Brooklyn, N. Y. Canned fruits and vegetables. No. 142,474; June 13.

Driver-Harris Company, Harrison, N. J. Heater cords. No. 160,998; June 13.

Dryden Rubber Company, Chicago, Ill. Pneumatic automobile tires and inner tubes. No. 155,871; June 13.

Du Bois Malt Distributing House, The, Dubois, Pa. Malt extracts. No. 148,582; June 13.

Du Pont, E. I. de Nemours & Company, Wilmington, Del. Waterproofed fabrics. No. 162,385; June 13.

Duran y Cia., Barcelona, Spain. Olive oil. No. 155,339; June 13.

Eagle Rubber Co., The, Ashland Ohio, and New York, N. Y. Bouncing balls. No. 163,262; June 13.

Earle, Walter K., doing business as American Fruit Products Company, Chicago, Ill. Flavoring material for making a nonalcoholic fruit beverage. No. 159,857; June 13.

Eastern Malt Products Co. (See Robinson, Lettie C.)

Eng-Skell Company, Inc., San Francisco, Calif. Flavoring oils, extracts and compounds, preserved fruits, etc. Nos. 142,966–7; June 13.

Essex Specialty Co., Inc., Berkeley Heights, N. J. Wireless-telephone receiving sets and parts thereof. No. 160,999; June 13.

Filene's, Wm., Sons Company, Boston, Mass. Leather boots and shoes. No. 159,018; June 13.

Finger Cahn Co. Inc., New York, N. Y. Women's and misses' wearing apparel. No. 152,842; June 13.

Fitz Chemical Company, Philipsburg, N. J. Rubber heels. No. 139,520; June 13.

Florence Chemical Company, The. (See Waldkoenig, Florence A.)

Florence Manufacturing Company, Northampton, Mass. Toothbrushes. No. 159,460; June 13.

French Distributing Company. (See Strange, Risdon B.)

Fruit Cake Mfg Co., The, Newark, N. J. Laxative. No. 158,386; June 13.

G. & H. Products Co., Inc., Buffalo, N. Y. Malt. No. 153,760; June 13.

Garret, Fed., and Co., Malaga, Spain. Olive oil. Nos. 130,587–8; June 13.

Goldberg, I., and Sons, Boston, Mass. Tennis shoes. No. 153,599; June 13.

Grant, W. T., Company, New York, N. Y. Infants' hosiery. No. 157,484; June 13.

Great Lakes Cigar Mfg. Co., Detroit, Mich. Cigars. No. 160,010; June 13.

Grumbacher, Max, New York, N. Y. Artists' brushes. Nos. 161,080–4; June 13.

Grumbacher, Max, New York, N. Y. Artists' brushes. Nos. 161,087–8; June 13.

Grumbacher, Max, New York, N. Y. Artists' brushes. Nos. 161,091–4; June 13.

H. and A. Accessories, Chicago, Ill. Spark-plug extension. No. 162,176; June 13.

Hadley, Idale L., Hartford, Conn. Bed wardrobes and bedsteads. No. 161,188; June 13.

Hall, Nathaniel L., Norfolk, Va. Beverages sold as soft drinks and sirup for making same and sirup. No. 161,921; June 13.

Hannaford Company, The, Los Angeles, Calif. Women's house and street dresses. No. 154,450; June 13.

Harper, Philip S., Chicago, Ill. Gas burners. No. 161,995; June 13.

Harvard Garment Company. (See Lanning, Frank W.)

Healy, D. J., doing business as D. J. Healy Shops, Detroit, Mich. Women's underwear of textile fabric. No. 154,972; June 13.

Heberlein & Co. A. G., Wattwil and Rietweis, Switzerland. Mercerized cotton fabrics, in pieces, permanent organdie, cotton fabrics in pieces. No. 142,213; June 13.

Hercules Wood Heel Fastener Co., The, New York and Brooklyn, N. Y. Wooden heel fasteners for shoes. No. 150,359; June 13.

Hilton Collins Co. Incorporated, Louisville, Ky. Baseball bats. Nos. 161,551–2; June 13.

Hirschl & Bendheim, Washington, Mo. Tobacco smoking pipes. Nos. 159,312–13; June 13.

Hirshfield Skirt Co., St. Louis, Mo. Certain outing and sporting apparel. No. 157,151; June 13.

Hoegen, J. & J. V., & Company, New York, N. Y. Marmalade. No. 156,628; June 13.

Hoy, F. P., Incorporated, New York, N. Y. Corsets. No. 141,068; June 13.

Improved Reversible Glove Co., Inc., New York, N. Y. Gloves. No. 154,877; June 13.

India Rubber, Gutta Percha & Telegraph Works Company Limited, The, London, England. India-rubber tires. No. 161,437; June 13.

International Mailing Tube & Wrapper Co., New York and Brooklyn, N. Y. Mailing wrappers. No. 160,012; June 13.

International Telephone and Telegraph Corporation, New York, N. Y. Periodical published monthly. No. 159,316; June 13.

Irvin, Alex H., Company, Curwensville, Pa. Automatic paper-fastening machines. No. 144,972; June 13.

Itchgon Company, The. (See Uhry, Herman.)

Jackson-Gutman Company, The, Salisbury, Md. Negligée shirts. No. 149,901; June 13.

Jellico Grocery Company, Williamsburg, Ky., and Jellico, Tenn. Baking powder. No. 149,083; June 13.

Jensen, Mrs. Otto, doing business as Mrs. Otto Jensen, Lubec, Me. Ointment for pimples, ringworm, tetter, eruptions, etc. No. 158,043; June 13.

Jewett Manufacturing Corporation, Newark, N. J. Radio signaling. No. 159,708; June 13.

Jewett Motors, Detroit, Mich. Automobiles. No. 160,949; June 13.

Johnson, Janet, New York, N. Y. Hair growers, tonic and gloss. No. 157,616; June 13.

Jungels, T. C., doing business as Jungels Candy Company, Joliet, Ill. Candy. No. 156,493; June 13.

Kalamazoo Sled Company, The, Kalamazoo, Mich. Hand sleds. No. 162,823; June 13.

Kaufman, Chas., & Bros., Chicago, Ill. Men's suits. No. 152,208; June 13.

Kayser, Julius, & Co., New York, N. Y. Stockings. No. 154,563; June 13.

Kielsmeier Company, Manitowoc, Wis. Butter. No. 142,979; June 13.

Knipe Bros. Inc., Haverhill, Mass. Leather boots and shoes. No. 158,620; June 13.

Koenig, Fred A., Chicago, Ill. Blank account books. No. 160,611; June 13.

Krich, Max H., doing business as Krich Light & Electric Company, Newark, N. J. Glass lamp shades. No. 159,321; June 13.

Lanning, Frank W., doing business as Harvard Garment Company, Harvard, Ill. Cloth dolls and doll dresses. No. 163,405; June 13.

Largman, Gray Company, Philadelphia, Pa. Silk hose. No. 153,984; June 13.

Lathrop, Hiram N., Boston, Mass. Refrigerators. No. 148,844; June 13.

Lees, James, and Sons Company, Bridgeport, Pa. Knitwear, fancy knit goods, scarfs for women, men's mufflers, misses' jerseys, etc. No. 148,336; June 13.

Lehn and Fink, Inc., New York, N. Y. Cosmetics. No. 157,228; June 13.

Lehn and Fink, Inc., New York, N. Y. Antiseptics. No. 159,600; June 13.

Levy, F. Shoe Co., St. Louis, Mo. Children's shoes made of leather, rubber fabrics, and combinations of materials. No. 158,318; June 13.

Little Duchess Dress Co. Inc., The, assignors to Rotary Frocks, Inc., New York, N. Y. Women's, misses', children's, and infants' clothing. No. 141,228; June 13.

Little Wonder Electric Heater Company. (See Nitch, Rudolf.)

Lubbers & Bell Mfg. Co., Clinton, Iowa. Fly swatters. Nos. 162,688–9; June 13.

Lubbers & Bell Mfg. Co., Clinton, Iowa. Fly swatters. No. 163,312; June 13.

Lummis & Co., Philadelphia, Pa. Salted peanuts, peanut candies, and peanut butter. No. 156,230; June 13.

Lunn & Sweet Company, Auburn, Me. Leather shoes. No. 158,627; June 13.

McCrary, John N., High Point, N. C. Cigars made of various tobaccos. No. 145,638; June 13.

McCreery, James, & Company, New York, N. Y. Floor brushes and brooms, whisk brooms, toothbrushes, hairbrushes, etc. No. 158,242; June 13.

MacDermid, Charles A., Boston, Mass. Separating solution for dental plaster work. No. 159,762; June 13.

Magnavox Company, The, Oakland, Calif. Telephone and radio receiving sets. Nos. 161,499–502; June 13.

Magnus Electric Co. Inc., New York, N. Y. Electrical plugs, attachment plugs, caps, etc. No. 161,784; June 13.

Marcelle Corporation, The, Philadelphia, Pa. Misses' and women's dresses. No. 156,459; June 13.

Marotta, Alfonso, East Boston, Mass. Remedy for indigestion. No. 159,809; June 13.

Matchless Metal Polish Co., The, Chicago, Ill., and Glen Ridge, N. J. Buffing and polishing compositions. No. 159,169; June 13.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Meyers, J., Stationery & Printing Co. Inc., New York, N. Y. Legal and letter paper, writing pads, note-books, pencils, etc. No. 160,769; June 13.
Michigan Grape Products Co. (See Smith, J. Hungerford Grape Juice Co.)
Migel, J. A., Inc., New York, N. Y. Ladies' and misses' silk shirtwaists, suits, dresses, etc. No. 151,586; June 13.
Monitor Controller Company, Baltimore, Md. Electrical switches. No. 161,010; June 13.
Monmouth Gate & Manufacturing Company, Monmouth, Ill. Gates constructed of wood and steel. No. 159,808; June 13.
Moore, Walton N., Dry Goods Co., San Francisco, Calif. Cotton and cotton mixed wash dress piece goods. No. 143,874; June 13.
More, Walter H., Co., Inc., New York, N. Y. Shoes. No. 159,040; June 13.
Morrier, Hormisdas, doing business as Bible Land Cigar Company, Portsmouth, N. H. Manufactured cigars. No. 146,516; June 13.
Morse Manufacturing Company, Inc., Newark, N. J. Radioreceiving apparatus. No. 162,025; June 13.
Müller, Arthur, Bauten und Industriewerke, Johannisthal, near Berlin, Germany. Building materials. No. 142,316; June 13.
Müller, Arthur Bauten und Industriewerke, Johannisthal, near Berlin, Germany. Building materials. No. 145,350; June 13.
National Enameling & Stamping Co., New York, N. Y. Woven wicks. No. 159,170; June 13.
National Marking Machine Company, The, Cincinnati, Ohio. Chemical preparation. No. 158,946; June 13.
Nettleton Shops, Inc., Syracuse, N. Y. Shoes made of leather. No. 159,664; June 13.
New England Confectionery Company, Boston, Mass. Candy. No. 143,885; June 13.
New Home Sewing Machine Company, The, Orange, Mass. Sewing machines and attachments. No. 139,084; June 14
New Tread Tire Company, The, Columbiana, Ohio. Automobile rubber tires. No. 133,061; June 13.
New York Tribune, Inc., New York, N. Y. Title of a newspaper column. No. 160,202; June 13.
Nichols & Stone Company, Gardner, Mass. Household, office, and factory chairs. No. 161,504; June 13.
Nitch, Rudolf, doing business as Little Wonder Electric Heater Company, Cleveland, Ohio. Electric heaters for printing presses. No. 160,622; June 13.
Oklahoma City Mill & Elevator Co., Oklahoma, Okla. Wheat flour. No. 153,109; June 13.
Orbea Hermanos, Eibar, Spain. Firearms. No. 147,826; June 13.
Ovington Bros., New York, N. Y. Imitation art bronzes and imitation bronzes. No. 142,408; June 13.
Pacific Coast Biscuit Company, Seattle, Wash. Candied pop corn. No. 155,517; June 13.
Palmer, William J., Los Angeles, Calif. Combined check and account books. No. 159,614; June 13.
Palomba, Frederick W., Waterbury, Conn. Pencils. No. 157,688; June 13.
Peirce, George E., doing business as Thomas F. Peirce & Son, Providence, R. I. Shoes. No. 159,053; June 13.
Pollack, Max, & Co., Inc., New York, N. Y. Sewing threads. No. 153,992; June 13.
Primalt Products Co., Chicago, Ill. Malt extract for food purposes. No. 153,012; June 13.
Prophylactic Tooth Powder, Inc., New York, N. Y. Tooth powder. No. 153,365; June 13.
Pyro-Non Paint Co., Inc., Brooklyn, N. Y. Fireproofing compounds. No. 139,048; June 13.
Queen City Bottling Co., The, Cincinnati, Ohio. Fruit beverage sold as a soft drink and sirups for making same. No. 162,052; June 13.
Radium Research Laboratories, The, New York, N. Y. Tablets used as a blood purifier and general blood tonic. No. 157,901; June 13.
Rees Davis Toy Company, Chicago, Ill. Dolls. No. 162,768; June 13.
Rich, George S., doing business as Geo. S. Rich Co., Boston, Mass. Silk, wool, cotton, silk and wool, linen, and worsted yarns. No. 163,539; June 13.
Robeson, William A., doing business as Victory Coal Save Company, Saratoga Springs, N. Y. Composition for the treatment of fuel coal. No. 158,491; June 13.
Robinson, Lettie C., doing business as Eastern Malt Products Co., Concord, Mass. Malt sirup used as a food product. No. 138,405; June 13.
Robson & Bowen, New York, N. Y. Racing games. No. 163,115; June 13.
Ronzoni Macaroni Company, Inc., Long Island City, N. Y. Alimentary paste products. No. 156,415; June 13.
Roper, Geo. D., Corporation, Rockford, Ill. Gas ranges, plates, heaters, and stoves. No. 155,275; June 13.
Rotary Frocks, Inc. (See Little Duchess Dress Co., assignor.)
Rouzette Company, Cincinnati, Ohio. Parlor table game. No. 162,348; June 13.
Royal Baking Company, Salt Lake City, Utah. Bread or rolls. No. 145,649; June 13.
Royal Easy Chair Corporation, Sturgis, Mich. Davenports. No. 159,619; June 13.
Ryder, Herbert, Co., The (not incorporated), Chicago, Ill. Show-window display fixtures and parts thereof. No. 141,025; June 13.
Sabel & Balch, Chicago, Ill. Dust caps for tire valves. No. 155,370; June 13.
Saks and Company, New York, N. Y. Men's and boys' suits and overcoats. No. 155,460; June 13.
Schloss Manufacturing Co., San Francisco, Calif. Fruit-jar rings. Nos. 159,727–32; June 13.
Schreiber Products Corporation, Buffalo, N. Y. Malt-extract sirup for food purposes. No. 146,503; June 13.
Schreiber Products Corporation, Buffalo, N. Y. Malt-extract sirup for food purposes. Nos. 146,505–6; June 13.
Schreiber Products Corporation, Buffalo, N. Y. Malt-extract sirup for food purposes. No. 146,736; June 13.
Schreiber Products Corporation, Buffalo, N. Y. Malt-extract sirup for food purposes. No. 147,744; June 13.
Schwarz & Son, Newark, N. J. Candy. No. 158,492; June 13.
Shapleigh Hardware Company, St. Louis, Mo. Pneumatic rubber tires and tubes. No. 155,462; June 13.
Shasteen, Charles, Toledo, Ohio. Potato chips. No. 154,706; June 13.
Shaw, Max, Philadelphia, Pa. Dress and negligee shirts. No. 155,523; June 13.
Short & Son Co., Reading, Pa. Chewing gum. No. 132,762; June 13.
Simon, Franklin, & Co. Inc., New York, N. Y. Men's, boys', women's, girls', and misses' furnishings, undergarments, and clothing, and shoes, boots, slippers, etc. No. 151,642; June 13.
Sinclair, John, Ltd., Newcastle-on-Tyne, England. Smoking tobacco. No. 162,142; June 13.
Singer, Louis D., trading as The Singerine Flower Co., Harrodsburg, Ky. Artificial wreaths and floral decorations. No. 161,655; June 13.
Singerine Flower Co., The. (See Singer, Louis D.)
Sleight, M. W., Dallas and Cuero, Tex. Poultry food. No. 153,413; June 13.
Smith, J. Hungerford, Grape Juice Co., doing business as Michigan Grape Products Co., Lawton, Mich. Grape juice. No. 162,772; June 13.
Southern California Supply Company, The, Los Angeles, Calif. Nonalcoholic, maltless beverage and extracts, flavors, and colors for making the same. No. 160,086; June 13.
Spencer, George, Moulton & Co. Ltd., London and Westminster, London, England. India-rubber tires and inner tubes. No. 155,237; June 13.
Stahl, Francis X., Cincinnati, Ohio. Phonograph cabinets. No. 160,508; June 13.
Star Company, New York, N. Y. Newspaper section. No. 158,730; June 13.
Stearns & Foster Company, The, Lockland, Ohio. Mattresses. No. 160,097; June 13.
Steinfels Frères, Vincennes, France. Soaps. Nos. 158,063–6; June 13.
St. Louis Brass Mfg. Co., St. Louis, Mo. Electric-lighting fixtures. No. 162,321; June 13.
Story, O. K., & Company, Washburn, Me. Potatoes in their natural state. No. 155,779; June 13.
Strange, Risdon B., trading as French Distributing Company, Atlanta, Ga. Hair grower and a preparation for the skin. No. 156,059; June 13.
Strause Gas Iron Co., Philadelphia, Pa. Electric irons. No. 162,518; June 13.
Superior Underwear Company, The, Piqua, Ohio. Men's, women's, and children's union suits, combination suits, undershirts, and underdrawers. No. 157,240; June 13.
Texas Star Flour Mills, Galveston, Tex. Wheat flour. No. 154,891; June 13.
Turner & Walls, New York, N. Y. Wool and artificial silk piece goods and combinations of same. No. 159,437; June 13.
Tuttle, W. E., Company, The, Rochester, N. Y. Men's leather shoes. No. 152,524; June 13.
U & J Carburetor Company, The, Chicago, Ill. Timers for internal-combustion engines. No. 134,616; June 13.
Uhry, Heyman, doing business as The Itchgon Co., New Orleans, La. Medicine for skin trouble. No. 157,085; June 13.
United States Asphalt Refining Company, The, New York, N. Y. Paving materials of asphalt. No. 157,542; June 13.
United States Chain & Forging Co., Pittsburgh, Pa. Chains of base metal and tire-grip chains. No. 155,840; June 13.
Verso-Tone Medicine Co. (See Crooks, Harold.)
Victoria Undergarment Co. Inc., New York, N. Y. Ladies' muslin and silk underwear. No. 151,896; June 13.
Victory Coal Save Company. (See Robeson, William A.)
Vincent, George, New York, N. Y. Tracing paper. No. 155,282; June 13.
Vitalis Products, Incorporated, Los Angeles, Calif. Batteries. No. 159,735; June 13.
Wabash Baking Powder Company, Wabash, Ind. Cornstarch, flavoring extracts, gelatine dessert, and tapioca. No. 155,202; June 13.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Waldkoenig, Florence A., doing business as The Florence Chemical Company, Atlanta, Ga. Pharmaceutical preparation for the treatment of biliousness, gases, heartburn, etc. No. 155,132; June 13.

Walker, A. R., Candy Corporation, Muskegon, Mich. Candies. No. 155,246; June 13.

Walker Webbing Co., Providence, R. I. Shoe, underwear, and blouse lacings, galloons, braids, etc. No. 155,943; June 13.

Walker, Webbing Co., Providence, R. I. Shoe, underwear, and blouse lacings, galloons, braids, etc. No. 156,040; June 13.

Walker Webbing Co., Providence, R. I. Shoe, underwear, and blouse lacings, galloons, braids, etc. No. 156,426; June 13.

Walther & Company, New York, N. Y. Surface coated, roll-printed, metal-coated, and embossed paper. No. 160,909; June 13.

Warren Manufacturing Company, The, New York, N. Y. Glassine paper. No. 159,673; June 13.

Waterbury Metal Wares Co., The, Waterbury, Conn. Portable electric lamps. No. 162,364; June 13.

Wearever Hosiery Co. (See Arons, Alexander.)

Wenger, S. A., & Co., Inc., New York, N. Y. Thrown silk No. 162,151; June 13.

Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Radio telephone and telegraph transmitters and receivers, etc. No. 162,277; June 13.

Westinghouse Union Battery Co., Swissvale, Pa. Periodicals issued bimonthly. No. 158,027; June 13.

Westinghouse Union Battery Co., Swissvale, Pa. Battery chargers and electrical rectifiers. No. 161,664; June 13.

Williams, A. G., Homemade Candy Co., Inc., New Orleans, La. Candies. No. 154,250; June 13.

Wilson Process, Inc., New York, N. Y. Boots and shoes. No. 149,787; June 13.

Wingen, Anton, Jr., doing business as Anton Wingen, Jr. Solingen, Germany. No. 155,536; June 13.

Wollensak Optical Company, Rochester, N. Y. Monthly periodical. No. 144,595; June 13.

Worth, Inc., New York, N. Y. Frocks, dresses, suits, furs, underwear, gloves, etc. No. 161,466; June 13.

Yale University Press, New York, N. Y. Series of volumes of epochal history of the United States. No. 158,694; June 13.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 13TH DAY OF JUNE, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Acetylene tank. F. J. Metzger. No. 1,419,746; June 13.
Adhesives alternately to both faces of sheets of paper, Apparatus for applying. W. E. Molins. No. 1,419,466; June 13.
Advertising novelty. B. K. Hauck. No. 1,419,136; June 13.
Aerofoil. F. E. Loudy. No. 1,419,277; June 13.
Aeronautical propeller. P. Thomson and M. J. Whelan. No. 1,419,180; June 13.
Aeroplane. E. H. Earle. No. 1,419,363; June 13.
Aeroplane control. C. A. Snow, Jr. No 1,419,419; June 13.
Aeroplane propeller. A. Martel, Jr. No. 1,419,877; June 13.
Agricultural implement. W. E. Aton. No. 1,419,602; June 13.
Agricultural rake. F. Hacker. No. 1,419,255; June 13.
Aircraft. D. B. Howard. No. 1,419,261; June 13.
Aircraft. G. F. Myers. No. 1,419,507; June 13.
Airplane control. A. W. Shirl. No. 1,419,416; June 13.
Airplane fire extinguisher. W. J. Sankey, Jr. No. 1,419,311; June 13.
Alternating-current motor. T. J. Murphy. No. 1,419,749; June 13.
Amplifying system. E. F. W. Alexanderson. No. 1,419,797; June 13.
Amusement apparatus. J. Metzger. No. 1,419,578; June 13.
Anchor, Rail. H. G. Warr. No. 1,419,333; June 13
Anthracene, Producing high-percentage pure. L. Weil. No. 1,419,186; June 13.
Antifriction attachment for greenhouse benches. P. I. Andrews. No. 1,419,484; June 13.
Antiskidding device. J. A. Maguire. No. 1,419,680; June 13.
Apron wheel. L. A. Krupp. No. 1,419,390; June 13.
Asbestos-fiber separator. A. Angers. No. 1,419,437; June 13.
Assorting device. J. G. Arcaro and T. C. Furr. No. 1,419,485; June 13.
Autihunting regulator system. S. A. Staege. Nos. 1,419,421–2; June 13.
Automobile. S. Kalma. No. 1,419,266; June 13.
Automobile and other doors, Latch for. J. T. Molloy and H. Hempe. No. 1,419,639; June 13.
Automobile indicator. F. R. Moore. No. 1,419,467; June 13.
Automobile lock. T. J. Coo. No. 1,419,227; June 13.
Automobile spring wheel. W. L. Buckels. No. 1,419,811; June 13.
Automobile traffic signal. V. De Dominicis and F. A. Reip. No. 1,419,661; June 13.
Automobile windshield cleaner. O. Anderson and F. W. Salsbury. No. 1,419,601; June 13.
Automobiles, Compressed-air feed for. W. M. Galloway. No. 1,419,553; June 13.
Automobiles, Device for attaching the suspension springs of. A. L. F. Wattel. No. 1,419,788; June 13.
Automobiles, Theft detector for. J. J. Michalski. No. 1,419,401; June 13.
Ax, Convertible hand. B. Gidmark. No. 1,419,249; June 13.
Baby walker. R. Noel, Sr. No. 1,419,890; June 13.
Bag: *See*—
Marketing bag.
Bag. J. Terr. No. 1,419,425; June 13.
Bag-filling machine. L. H. Hartman. No. 1,419,627; June 13.
Bag holder. R. Forster. No. 1,419,244; June 13.
Baking pan. C. V. Putnam and R. F. Trimmer. No. 1,419,756; June 13.
Ball-loading device. H. M. Rockwell. No. 1,419,519; June 13.
Ball projector. B. L. Blair. No. 1,419,445; June 13.
Ball projector. F. Blando. Nos. 1,419,538–9; June 13.
Ball-rolling apparatus. F. M. Canda. No. 1,419,817; June 13.
Balls, Apparatus for the manufacture of metallic. A. W. Albrecht. No. 1,419,599; June 13.
Balls between race members, Inserting. H. M. Rockwell. No. 1,419,521; June 13.
Balloons, Car suspension for. R. S. Bamberger. No. 1,419,205; June 13.
Banjo. R. A. Carlucci. No. 1,419,818; June 13.
Banks and the like, Apparatus for protecting. J. W. Clarkson and C. A. Dimler. No. 1,419,491; June 13.
Battery: *See*—
Storage battery.
Battery cover. E. A. Berry. No. 1,419,208; June 13.
Bearing. F. L. O. Wadsworth. No. 1,419,782; June 13.
Bearing for the cam disks of cam-disk gearings, Roller. F. Martin. No. 1,419,681; June 13.
Bearing hanger, Ball-. G. I. Snyder. No. 1,419,420; June 13.
Bearing rolls, Process and apparatus for making. T. V. Buckwalter. No. 1,419,611; June 13.
Bed. B. W. Goebel. No. 1,419,624; June 13.
Bed, Automobile. L. J. Clergy. No. 1,419,820; June 13.
Bed, Collapsible. L. F. Scbilling. No. 1,419,765; June 13.
Bed construction. C. F. Plackard. No. 1,419,586; June 13.
Bed, Convertible. G. F. Sisbower and L. E. Pittoni. No. 1,419,319; June 13.
Bed, Extensible. W. E. Lawson. No. 1,419,574; June 13.
Beds, Chair attachment for. J. A. Freeze. No. 1,419,245; June 13.
Beds or other articles, Frame fastener for. E. Novitzky. No. 1,419,297; June 13.
Belting, Making. E. F. Gingras. No. 1,419,842; June 13.
Bin: *See*—
Grain bin.
Measuring grocery bin.
Block: *See*—
Building block.
Sludge-table block.
Button block.
Boat, Collapsible. H. Meyer. No. 1,419,464; June 13.
Boilers, Apparatus for preventing scale deposit and foaming in. A. A. Stutsman. No. 1,419,701; June 13.
Book covers, Pencil-operated lock for. J. C. F. Schafer. No. 1,419,411; June 13.
Bookkeeping entry sheet. G. A. Lambert. No. 1,419,275; June 13.
Boring head. C. E. Davis. No. 1,419,448; June 13.
Bottle. A. Miller. No. 1,419,747; June 13.
Bottle. L. B. Newell. No. 1,419,509; June 13.
Bottle-filling machine. C. W. Desobry. No. 1,419,235; June 13.
Bottle stopper and measuring glass. D. Molinari. No. 1,419,580; June 13.
Bottle-top. J. F. Dowd. No. 1,419,829; June 13.
Bottles with charged beverages, Machine for filling. H. M. Smith. No. 1,419,697; June 13.
Bowls and the like, Device for suspending. B. Richardson. No. 1,419,307; June 13.
Box: *See*—
Cigarette box.
Electric coil box.
Paper toilet box.
Phonographic sound box.
Sound box.
Talking-machine sound box.
Box-closing appliance. J. A. Stock. No. 1,419,590; June 13.
Box-covering machine. W. F. Morse. No. 1,419,641; June 13.
Box spanner and the like. I. Chadderton. No. 1,419,222; June 13.
Box tops, Machine for applying. G. H. Little. No. 1,419,576; June 13.
Brace: *See*—
Circle brace.
Bracelet. A. Genaille. No. 1,419,370; June 13.
Brake: *See*—
Phonograph brake.
Car brake.
Brake-controlling dashpot. T. W. Wheatley. No. 1,419,430; June 13.
Broom-corn breaker and tabler. P. K. Jenkins. No. 1,419,262; June 13.
Brush, Shaving. C. G. Myers. No. 1,419,887; June 13.
Buckle, Four-way strap. H. G. Sturges. No. 1,419,592; June 13.
Building block, Hollow. P. H. Bevier. No. 1,419,713; June 13.
Building block, Hollow. D. H. Fessenden. No. 1,419,623; June 13.
Building construction. C. H. Besnard. No. 1,419,126; June 13.
Building framework. B. W. Levitan. No. 1,419,868; June 13.
Bumper. L. M. Singer. No. 1,419,318; June 13.
Bumper. J. J. Stock. No. 1,419,775; June 13.
Bumper-supporting bracket. W. R. McGowen. No. 1,419,279; June 13.
Burglar alarm and lock. E. C. Klomfass. No. 1,419,738; June 13.
Burner: *See*—
Fuel-oil burner.

Button block. G. W. Woodward. No. 1,419,597; June 13.
Cabinet, Display. W. A. Hall and O. Robinson. No. 1,419,846; June 13.
Cabinet, Fuel. G. D. Hood. No. 1,419,259; June 13.
Cabinet, Kitchen. L. L. Ludwig. No. 1,419,278; June 13.
Cabinet, Sheet-metal. F. P. Williams. No. 1,419,481; June 13.
Cable. T. Gore. No. 1,419,560; June 13.
Cable clamps. W. A. Lee. No. 1,419,741; June 13.
Cable-cutting device. T. Webb. No. 1,419,789; June 13.
Cable holder. H. Olsen. No. 1,419,584; June 13.
Calendar. J. C. Thorne. No. 1,419,779; June 13.
Calipers, Micrometer. L. Flachskampf. No. 1,419,837; June 13.
Camera. W. S. Smith and F. S. Williams. No. 1,419,323; June 13.
Cameras, Magazine film and plate holder for. W. Pack. No. 1,419,406; June 13.
Camp heater, Nesting. J. L. Anderson. No. 1,419,600; June 13.
Can: *See*—
Sheet-metal can.
Can-body-forming machine. P. Kruse. No. 1,419,573; June 13.
Cap, Adjustable. C. Solomon. No. 1,419,771; June 13.
Capsule, Double. W. M. Deming. No. 1,419,618; June 13.
Car bolster and making same. C. E. Bauer. No. 1,419,348; June 13.
Car brake, Mine-. S. J. Sprock and R. Dunn. No. 1,419,773; June 13.
Car control and air-brake equipment, Safety. G. Macloskie and C. A. Ives. No. 1,419,873; June 13.
Car, Railway baggage or general-goods. L. Huwÿler. No. 1,419,675; June 13.
Cars, Draft gear for railway. R. D. Gallagher, Jr. No. 1,419,669; June 13.
Carburetors, Air heater and moisture supply for. S. R. Du Brie. No. 1,419,239; June 13.
Card-filing apparatus. D. T. B. Wood. No. 1,419,656; June 13.
Card holder. E. J. Palmer. No. 1,419,301; June 13.
Cardanic suspension. K. Stahl. No. 1,419,176; June 13.
Carrier: *See*—
Auto tire-tube carrier.
Carrier rollers, etc., Bushing for. F. J. Oakes. No. 1,419,892; June 13.
Carriers, Attachment for bundle. N. M. Cameron. No. 1,419,542; June 13.
Carroting hairs. C. Pichard. No. 1,419,754; June 13.
Cartridge fuse. T. Colson. No. 1,419,226; June 13.
Case: *See*—
Gear case.
Cement or similar floors, Insert for. C. H. Fay. No. 1,419,548; June 13.
Cement spreader. C. J. Bellar. No. 1,419,537; June 13.
Centrifugal decantation. W. Mauss. No. 1,419,285; June 13.
Centrifugal switch. R. S. Hardin and E. W. Wichle. No. 1,419,626; June 13.
Chain. F. J. Oakes. No. 1,419,891; June 13.
Chain latch. E. M. Howg. No. 1,419,565; June 13.
Chain-stitch machine. K. Maier. No. 1,419,462; June 13.
Chains, Insulating coupling unit for pull-socket. A. C. Recker. No. 1,419,644; June 13.
Chart, Efficiency and educational. J. L. Bowles, Jr. No. 1,419,809; June 13.
Chart, Hospital. F. M. Eckes. No. 1,419,831; June 13.
Check holder and notching device, Sales-. C. A. Erickson. No. 1,419,620; June 13.
Check holder and punch, Sales-. C. A. Erickson. No. 1,419,621; June 13.
Cider press. H. H. Stewart. No. 1,419,700; June 13.
Cigarette box. G. F. Hall. No. 1,419,375; June 13.
Cigarette holder. J. B. Ingalls. No. 1,419,141; June 13.
Cigarette roller. F. Clifford. No. 1,419,224; June 13.
Cinematographic projections, Device to obtain stereoscopic effects in. F. Lehnhoff-Wyld. No. 1,419,901; June 13.
Circle brace. W. H. Burstall. No. 1,419,541; June 13.
Clamp: *See*—
Cable clamp. Hose clamp.
Clamp. N. B. Allen. No. 1,419,193; June 13.
Clamp. C. D. Miller. No. 1,419,288; June 13.
Clasp: *See*—
Double clasp. Tailor's try-on clasp.
Cleaner: *See*—
Automobile windshield cleaner. Pipe cleaner.
Ring-groove cleaner.
Closet: *See*—
Sanitary closet. Water closet.
Closet. F. X. Wild. No. 1,419,339; June 13.
Closets, Flushing device for. E. Thiry. No. 1,419,426; June 13.
Clothesline reel. F. J. Schaper. No. 1,419,589; June 13.
Clutch W. F. Harrington No. 1,419,849; June 13.
Coal breaker. F. Pardee. No. 1,419,407; June 13.
Coating material. O. Hommel. No. 1,419,258; June 13.
Coin-controlled mechanism. W. F. Moriarty. No. 1,419,581; June 13.
Coin separator. J. W. Martin. No. 1,419,878; June 13.
Coking coal. F. Puening. No. 1,419,908; June 13.
Collar button. J. O'Neal. No. 1,419,298; June 13.
Collar fastener. G. O. Smith. No. 1,419,696; June 13.
Collection systems, Means employed in. G. W. Bush. No. 1,419,815; June 13.
Comb: *See*—
Hair comb.
Comb. E. R. Person. No. 1,419,753; June 13.
Combination pot. C. Peduto and V. Marino. No. 1,419,515; June 13.
Commutator and the like. S. R. Bergman. No. 1,419,803; June 13.
Compass, Mariner's. M. B. Field. No. 1,419,836; June 13.
Concrete ingredients or other substances, Machine for mixing. F. W. Kiddie. No. 1,419,737; June 13.
Concrete-machine mold. C. A. Steward. No. 1,419,699; June 13.
Concrete mixers and the like, Batch meters for. C. E. Foote. No. 1,419,451; June 13.
Conduit support. G. E. Beck and T. E. Kirkpatrick. No. 1,419,536; June 13.
Confection-making apparatus. T. Bosshard. No. 1,419,808; June 13.
Construction member. C. Dornier. No. 1,419,827; June 13.
Container. H. Miller. No. 1,419,883; June 13.
Cooker. J. F. Geisendorfer. No. 1,419,670; June 13.
Cooker, Continuous pressure. R. L. Hunter. No. 1,419,139; June 13.
Cooler: *See*—
Sirup cooler.
Cop mountings, Moistening means for. W. A. Houck. No. 1,419,734; June 13.
Cord-fastening hook. W. L. M. Robidoux. No. 1,419,410; June 13.
Cork-making machines, Feeding attachment for crown-. B. Nagy. No. 1,419,583; June 13.
Corn-husking machine. C. C. O'Neill and J. J. Hynes. No. 1,419,895; June 13.
Corner-staying metal-edge and like machine. J. W. Nasmith. No. 1,419,344; June 13.
Counter, Magnetic revolution. N. Gray. No. 1,419,253; June 13
Counterbalance, Movable. G. H. Goodell. No. 1,419,372; June 13.
Coupling: *See*—
Mast coupling.
Crank holder H. B. Wilson. No. 1,419,793; June 13.
Crates and boxes, Corner lock for. J. P. Wilson. No. 1,419,794; June 13.
Crosshead. M. D. Joyner. No. 1,419,457; June 13.
Crossing-bar joint. E. Bogert. No. 1,419,446; June 13.
Cuff. C. M. Walker. No. 1,419,332; June 13.
Cultivator. F. C. Dittmar. No. 1,419,722; June 13.
Cultivator attachment. L. J. Summerlin. No. 1,419,477; June 13.
Cultivator shield. H. Otto. No. 1,419,687; June 13.
Cup: *See*—
Grease cup.
Curtain rod. A. Beckman. No. 1,419,207; June 13.
Curtain rod. W. Kress. No. 1,419,389; June 13.
Cushion seat. C. F. Coda. No. 1,419,492; June 13.
Cushioned seat. F. B. King and R. L. Stevens. No. 1,419,270; June 13.
Cut-off, Automatic safety. R. T. Webb. No. 1,419,334; June 13.
Cutter: *See*—
Glass cutter. Trash cutter.
Cutting device. M. C. A. H. Pape. No. 1,419,302; June 13.
Dam and constructing same. H. W. Hixon. No. 1,419,852; June 13.
Damper. B. F. Annis. No. 1,419,438; June 13.
Delivery mechanism, Folding. H. A. W. Wood and C. Nordfors. No. 1,419,188; June 13.
Demountable rims and the like, Tool for. J. Reichert. No. 1,419,758; June 13.
Depth-indicating device. H. W. King. Nos. 1,419,387–8; June 13.
Desiccator. H. B. Faber and W. H. Harding, Jr. No. 1,419,664; June 13.
Detergent compound and making the same. F. H. Guernsey. No. 1,419,625; June 13.
Digester pressure lock. J. K. Ruths. No. 1,419,763; June 13.
Digging machine, Trench-. W. G. and O. R. Humphreys. No. 1,419,381; June 13.
Display device and blank. M. V. Miller. No. 1,419,638; June 13.
Display stand. G. J. Coughlin. No. 1,419,616; June 13.
Displaying and advertising purposes, Illuminated apparatus for. W. J. Beville. No. 1,419,899; June 13.
Doffing apparatus. E. R. Alderman. No. 1,419,192; June 13.
Double clasp. M. L. Minor. No. 1,419,683; June 13.
Dowel. J. Turner. No. 1,419,652; June 13.
Draft equalizer. A. G. Meador. No. 1,419,881; June 13.
Draft mechanism. J. O. Neikirk. No. 1,419,508; June 13.
Dredge-bucket lip. R. W. Seyms. No. 1,419,524; June 13.
Drift sight. D. L. Webster and H. N. Russell. No. 1,419,335; June 13.
Drill: *See*—
Seed drill.
Drilling tool, Electric. R. C. Sharp. No. 1,419,415; June 13.
Driving mechanism. S. Garwood. No. 1,419,555; June 13.
Drying apparatus. D. J. Watrous. No. 1,419,707; June 13.
Drying frame, Garment-. I. Garon. No. 1,419,133; June 13.
Drying machine. J. G. Bassette. No. 1,419,712; June 13.

Dyes. W. Herzberg and G. Hoppe. No. 1,419,502; June 13.
Dyes, Orthooxyazo. R. Haugwitz. No. 1,419,500; June 13.
Dyes, Orthooxyazo. W. Herzberg and O. Scharfenberg. No. 1,419,501; June 13.
Edge-setting tools, Holder for. J. E. Foss. No. 1,419,496; June 13.
Educational device. J. N. Meyers. No. 1,419,882; June 13.
Egg protector. F. Hostetter. No. 1,419,905; June 13.
Electric coil box. E. A. Sandling. No. 1,419,691; June 13.
Electric current conductors, Method of and means for jointing. J. F. Schleper. No. 1,419,523; June 13.
Electric governing system. W. W. Dean. No. 1,419,233; June 13.
Electric heater. F. G. Van Dyke. No. 1,419,330; June 13.
Electric heating fabric. P. E. Charles. No. 1,419,613; June 13.
Electric iron. J. M. Seche. No. 1,419,173; June 13.
Electric-light display system. J. H. Hammond, Jr. No. 1,419,256; June 13.
Electric regulation. J. L. Creveling. Nos. 1,419,493–4; June 13.
Electric switch mechanism. W. Richmond. No. 1,419,898; June 13.
Electrical measuring apparatus. H. W. Hitchcock. Nos. 1,419,673–4; June 13.
Electrolytic light source. J. Coulson. No. 1,419,360; June 13.
Electromagnetic device. H. W. Goff. No. 1,419,559; June 13.
Electromagnetic switches, Control of. R. H. McLain. No. 1,419,872; June 13.
Electron-discharge device. H. W. Weinhart. No. 1,419,528; June 13.
Electronic apparatus. C. D. Ehret. No. 1,419,547; June 13.
Elevator: *See*—
Hydraulic elevator.
Elevators, Hoisting mechanism for. N. P. Julien. No. 1,419,783; June 13.
Engine: *See*—
Internal-combustion engine. Traction engine.
Reciprocating engine.
Engines, Frame beam for horizontal. E. Kägi. No. 1,419,858; June 13.
Engines, Magneto-electric ignition machine for internal-combustion. J. Schneider, E. Hurlimann, and F. Billon. No. 1,419,767; June 13.
Engines, Oil-fuel-injection device for internal-combustion. K. I. Crossley and W. L. Webb. No. 1,419,231; June 13.
Engines, Starter for internal-combustion. F. J. McCandless. No. 1,419,461; June 13.
Envelope, Double. J. M. Ness. No. 1,419,888; June 13.
Excavator, Bucket-chain. W. G. and O. R. Humphreys. No. 1,419,382; June 13.
Eyeglass-releasing device. W. Gauer. No. 1,419,369; June 13.
Fabric: *See*—
Electric heating fabric.
Fan. R. Clade. No. 1,419,719; June 13.
Fan, Motor. P. Gennette. No. 1,419,841; June 13.
Fastening. E. Knapp. No. 1,419,864; June 13.
Faucet. W. Dietz. No. 1,419,237; June 13.
Faucet, Combination. H. D. Kelly. No. 1,419,386; June 13.
Feed-mixing machine. W. J. Marsh. No. 1,419,397; June 13.
Fencepost, Metal. O. M. Knox. No. 1,419,633; June 13.
Fibers from the injurious effect of alkaline liquids, Protecting animal. P. Goldberg, P. Onnertz, and A. Peters. No. 1,419,497; June 13.
Filaments, Process and apparatus for bending. A. Lederer. No. 1,419,153; June 13.
Filing system, Follow-up. S. W. McKee. No. 1,419,394; June 13.
Filter, Vacuum. W. Mauss. No. 1,419,286; June 13.
Fire door. A. J. Boehm. No. 1,419,807; June 13.
Fire escape. C. C. Abbott and W. E. and B. L. Bassett. No. 1,419,532; June 13.
Fireplace. E. Brammer. No. 1,419,810; June 13.
Fish, Container for transporting live. E. C. Fearnow. No. 1,419,549; June 13.
Fishing bait, Weed attachment for. W. C. Brown. No. 1,419,540; June 13.
Fishing hook. R. W. Bailey. No. 1,419,903; June 13.
Flashing and counterflashing for roofs, etc. H. C. Maxwell. No. 1,419,287; June 13.
Float switch. H. F. Boe. No. 1,419,352; June 13.
Flour bins, Gate control for. E. Gase. No. 1,419,556; June 13.
Flow-control device. H. B. Morrill. No. 1,419,640; June 13.
Flow tube. H. H. Mapelsden and C. F. Bullock. No. 1,419,876; June 13.
Fluid motor. C. Sechrist. No. 1,419,772; June 13.
Fluid-pressure controller. V. V. Veenshoten. No. 1,419,331; June 13.
Flush bowl, Sanitary. A. D. Grant. No. 1,419,498; June 13.
Flying machine. F. W. Budig. No. 1,419,447; June 13.
Flytrap, Hanging. E. A. Keckler. No. 1,419,859; June 13.
Fountains, Regulator for antifreezing drinking. K. Murdock. No. 1,419,292; June 13.
Frame: *See*—
Drying frame. Mattress frame.
Fuel feeder and mixer, Pulverized-. H. I. Gentine. No. 1,419,730; June 13.
Fuel mixer, Gaseous-. E. C. Angel. No. 1,419,710; June 13.
Fuel-oil burner. W. M. Hoffman. No. 1,419,380; June 13.
Fuel-reserve-supply system. C. F. Green and H. W. Lindsey, Jr. No. 1,419,373; June 13.
Fuel tank. V. W. Pagé. No. 1,419,896; June 13.
Furniture, Article of. W. L. Shepherdson. No. 1,419,647; June 13.
Furniture, Convertible. L. W. Miller. No. 1,419,465; June 13.
Fuse, Enclosed. A. L. Eustice. No. 1,419,724; June 13.
Game apparatus. F. W. Ganse. No. 1,419,554; June 13.
Game counter. D. McDonald. No. 1,419,871; June 13.
Garbage reducer and distillator. P. L. Goodman. No. 1,419,135; June 13.
Garment pattern. F. Koewing. No. 1,419,634; June 13.
Garment pocket closure. A. B. Jardin. No. 1,419,735; June 13.
Gas lock, Automatic. R. Miller. No. 1,419,884; June 13.
Gas producers, Poker for. E. H. Wilson. No. 1,419,342; June 13.
Gases, Detecting. E. P. S. Newman. No. 1,419,685; June 13.
Gases, Device for measuring the velocity of. H. Bacharach. No. 1,419,798; June 13.
Gases dissolved in liquids, as, for instance, acetylene, Porous charge for containers serving for storage of explosive. E. Klebert. No. 1,419,862; June 13.
Gases, Portable apparatus for generating poisonous. J. W. Van Meter. No. 1,419,653; June 13.
Gaseous strata, Device for effecting the mixing of. R. W. Burckhardt. No. 1,419,216; June 13.
Gate: *See*—
Railway gate.
Gauge: *See*—
Hammer gauge. Surface gauge.
Gear case. C. Bethel. No. 1,419,351; June 13.
Gear shift, Mechanical. G. T. Randol. No. 1,419,518; June 13.
Gearing. W. H. George. No. 1,419,247; June 13.
Gearing, Change-speed. G. Q. Seaman, Jr. No. 1,419,770; June 13.
Gearing, Power-transmission. W. G. and O. R. Humphreys. No. 1,419,383; June 13.
Girder or frame. L. S. Lachman. No. 1,419,274; June 13.
Glass cutter. H. A. Ryther. No. 1,419,310; June 13.
Globe, Geographical. M. H. E. Beckley. No. 1,419,604; June 13.
Gold pan. E. O. C. Ord. No. 1,419,405; June 13.
Golf players, Test and practice apparatus for. J. M. MacDonald. No. 1,419,636; June 13.
Golf-stick handle. W. C. Yerger. No. 1,419,795; June 13.
Grain bin. A. D. W. Johnson. No. 1,419,142; June 13.
Grain-bin door and door frame. L. H. Dickelman. No. 1,419,236; June 13.
Grain cradle. G. W. Brown. No. 1,419,609; June 13.
Grease cup. J. H. Main. No. 1,419,282; June 13.
Grinder attachment, Disk-. G. R. Barksdale. No. 1,419,535; June 13.
Grinding machine. R. F. Knight. No. 1,419,271; June 13.
Grinding machine. J. B. Kronable. No. 1,419,740; June 13.
Grinding machine, Button-blank-. E. C. Carris. No. 1,419,489; June 13.
Gun, Air. E. S. Roe. No. 1,419,308; June 13.
Hair comb. L. A. Moberry. No. 1,419,579; June 13.
Hammer gauge. P. F. Johnson. No. 1,419,567; June 13.
Handkerchief set. I. S. Bach. No. 1,419,658; June 13.
Handle: *See*—
Golf-stick handle.
Hanger: *See*—
Ball-bearing hanger. Swing hanger.
Harness. H. C. Egerton. No. 1,419,450; June 13.
Harrow, Plow or disk. F. L. Paige. No. 1,419,585; June 13.
Harvester, Power-propelled. F. D. Wilson and R. C. Livesay. No. 1,419,433; June 13.
Harvesting machine, Stalk-arm attachment for corn-. W. S. Baird. No. 1,419,347; June 13.
Hat form retainer. J. Powels. No. 1,495,517; June 13.
Hat holder. J. A. Storm. No. 1,419,325; June 13.
Headlight. C. E. Dull. No. 1,419,449; June 13.
Headlight. W. G. Wood. No. 1,419,482; June 13.
Headlight, Dirigible. O. L. Beam. No. 1,419,603; June 13.
Heater: *See*—
Camp heater. Orchard heater.
Electric heater. Water heater.
Heater humidifier. R. N. Murphy. No. 1,419,582; June 13.
Heating device, Electrical. T. C. Russell. No. 1,419,309; June 13.
High pressure, Device for generating. A. E. Guy. No. 1,419,844; June 13.
Hinge. V. Webber. No. 1,419,479; June 13.
Hinge joint. W. G. Wehrman. No. 1,419,791; June 13.
Hitch, Release. R. B. Johnston. No. 1,419,265; June 13.
Hoist, Mechanical. A. W. Waern. No. 1,419,181; June 13.
Hoists, Overspeed control for. D. F. Lepley. No. 1,419,154; June 13.

Hoisting apparatus. A. E. Norris. No. 1,419,167; June 13.
Hoisting engines, Swinging drum for. A. J. Imhoff. No. 1,419,855; June 13.
Hoisting mechanism. D. F. Lepley. No. 1,419,155; June 13.
Hook: *See*—
Cord fastening hook. Fishing hook.
Hook fastener, Flat. J. A. Storm. No. 1,419,326; June 13.
Hoop fastening. G. A. Le Fevre and H. Hutchinson. No. 1,419,392; June 13.
Horn, Mechanically-operated. G. J. Seiss. No. 1,419,213; June 13.
Horseshoe antislip device. B. P. Gray. No. 1,419,251; June 13.
Hose clamp. L. Palmer. No. 1,419,897; June 13.
Hub. E. Juelson. No. 1,419,568; June 13.
Hydraulic elevator, Steam. W. H. and E. B. Ridgway. No. 1,419,761; June 13.
Hydraulic transportation system. B. M. Jones. No. 1,419,143; June 13.
Hydrocarbon motor. D. M. White. No. 1,419,654; June 13.
Hydrocarbons from a water mixture, Separating and topping. W. A. Brown. No. 1,419,610; June 13.
Hydrocarbons from petroleum oils, Continuous production of low-boiling-point. R. W. Hanna. No. 1,419,378; June 13.
Igniter trip mechanism. A. R. Baker. No. 1,419,711; June 13.
Index. S. Anthony. No. 1,419,194; June 13.
Indicating mechanism. E. E. Kleinschmidt. No. 1,419,146; June 13.
Indicator: *See*—
Automobile indicator.
Inflammable and other liquids within tanks and piping out of contact with the air, Safety apparatus for the storage and distribution of. P. A. P. V. Mauclère. No. 1,419,880; June 13.
Ingot mold. E. Gathmann. No. 1,419,454; June 13.
Ink-distributing mechanism, Continuous. H. A. W. Wood. No. 1,419,189; June 13.
Inner tube. F. E. Bessler. Nos. 1,419,442-3; June 13.
Inner-tube-stripping post. W. H. Perrine. No. 1,419,752; June 13.
Insect destroyer. J. L. Franks. No. 1,419,900; June 13.
Insulating covering for pipes. C. Read. No. 1,419,171; June 13.
Internal-combustion engine. A. E. Osborn. No. 1,419,512; June 13.
Internal-combustion engine. C. T. Peigler. No. 1,419,688; June 13.
Internal-combustion engine. A. C. F. Schultz, Jr. No. 1,419,693; June 13.
Internal-combustion engines, Combustion chamber for. E. H. Tartrais. No. 1,419,702; June 13.
Iron: *See*—
Electric iron. Plane iron.
Iron or steel, Making. L. P. Basset. No. 1,419,801; June 13.
Jack: *See*—
Screw jack.
Jig, Bending. F. C. Fischer. No. 1,419,550; June 13.
Joint: *See*
Crossing-bar joint. Rail joint.
Hinge joint.
Journal bearing. S. McMillen. No. 1,419,506; June 13.
Key and switch, Combined. F. Lowenstein. No. 1,419,460; June 13.
Key ring and holder. L. E. Polhemus. No. 1,419,408; June 13.
Labeling machine. E. Donaldson. No. 1,419,546; June 13.
Ladder extension foot. L. M. Miller. No. 1,419,748; June 13.
Lamp, Electric flower. H. L. Lansing and J. R. Kohls. No. 1,419,152; June 13.
Lamp, Multiple-filament incandescent. L. Cammen. No. 1,419,816; June 13.
Lamp, Portable electric. J. J. Sullivan. No. 1,419,327; June 13.
Lamp, Table. S. J. Zelazo. No. 1,419,598; June 13.
Latch. E. Crompton and C. L. Crooks. No. 1,419,230; June 13.
Lathe dog. A. M. Fraser. No. 1,419,452; June 13.
Lathe-steadying device. H. C. Waterer. No. 1,419,786; June 13.
Lathe tool. E. J. Willis. No. 1,419,432; June 13.
Lawn sprinkler. N. H. Goodbar. No. 1,419,843; June 13.
Leather-polishing machine. C. Ruhe. No. 1,419,522; June 13.
Leveling and plowing machine. S. L. G. Knox. No. 1,419,866; June 13.
Life preserver, Inflatable. A. Kolberg. No. 1,419,272; June 13.
Lifting fixture. C. A. Diederichs. No. 1,419,721; June 13.
Liquid-dispensing apparatus. H. E. Maurer, Jr. No. 1,419,284; June 13.
Liquids in evaporating apparatus, Means for controlling the level of. W. H. P. Creighton. No. 1,419,824; June 13.
Liquids, Transferring. E. B. Thompson and E. B. Carr. No. 1,419,478; June 13.
Lock: *See*—
Automobile lock. Nut lock.
Digester pressure lock. Tire lock.
Gas lock.
Lock. R. J. Lozon. No. 1,419,393; June 13.
Lock. J. J. Pomeranz. No. 1,419,516; June 13.
Lock. E. B. Stone. No. 1,419,526; June 13.
Lubricating device. C. T. Coe. No. 1,419,821; June 13.
Lubrication device, Dustproof. E. C. Critchlow. No. 1,419,229; June 13.
Lubricator. C. B. Bradford. No. 1,419,210; June 13.
Luminous material, Apparatus for facilitating the application of. R. W. Erdle. No. 1,419,662; June 13.
Machine tool. A. S. Burnett. No. 1,419,812; June 13.
Mail and coin holding device. H. O. Tebbetts. No. 1,419,179; June 13.
Mailing matter, Apparatus for enveloping. F. McCarthy. (Reissue.) No. 15,385; June 13.
Mallet. M. Cohen. No. 1,419,615; June 13.
Marketing bag. W. H. Kniep. No. 1,419,739; June 13.
Mast coupling. G. F. Gray. No. 1,419,251; June 13.
Matchmaking machines, Collecting apparatus for automatic. L. Henninger. No. 1,419,732; June 13.
Mathematical instrument. V. L. Mattson. No. 1,419,283; June 13.
Mattress frame. F. G. Gale. No. 1,419,727; June 13.
Measuring device. H. H. Gunkel. No. 1,419,374; June 13.
Measuring grocery bin. J. E. Wieneke. No. 1,419,338; June 13.
Meat-slicing machine. E. G. Freed. No. 1,419,552; June 13.
Mechanical movement. G. A. Fullips. No. 1,419,368; June 13.
Memorandum pad. F. Zipoy. No. 1,419,190; June 13.
Meta-hydroxy-benzaldehyde. J. B. Slimm. No. 1,419,695; June 13.
Metal homogenous, Apparatus rendering. J. D. McNeill. No. 1,419,280; June 13.
Metal structure, Expanded. W. E. Ackermann. No. 1,419,709; June 13.
Metal wool and shavings, Apparatus for making. R. I. Schonitzer. No. 1,419,472; June 13.
Metal wool and shavings, Making. R. I. Schonitzer. No. 1,419,473; June 13.
Metals preparatory to welding, Means for cleaning. S. C. Cary and J. M. Betton. No. 1,419,717; June 13.
Metallic lining, Reenforced. J. A. MacKenzie. No. 1,419,395; June 13.
Microphone mounting. E. C. Wood. No. 1,419,596; June 13.
Milk-bottle-cap remover. R. N. Cox. No. 1,419,823; June 13.
Milk-bottle holder. R. H. Call. No. 1,419,488; June 13.
Milling machine. O. Hoppe. No. 1,419,853; June 13.
Mills, Attachment for pug. C. M. Fee. No. 1,419,833; June 13.
Mine doors, Operating mechanism for. C. E. Carter. No. 1,419,357; June 13.
Mirror support. W. Berwald. No. 1,419,804; June 13.
Mixer: *See*
Fuel mixer.
Mixing and proportioning device or valve, Automatic. D. Guelbaum. No. 1,419,455; June 13.
Mobile figure. M. Sieveking. No. 1,419,694; June 13.
Modulator or detector. R. V. L. Hartley. No. 1,419,562; June 13.
Moistener. H. Kamp. No. 1,419,504; June 13.
Mold: *See*—
Concrete-machine mold. Tire mold.
Ingot mold.
Molding machine. F. M. Iler. No. 1,419,566; June 13.
Mop. J. C. De Roo. No. 1,419,234; June 13.
Mop wringer. F. Craib and J. Barnett. No. 1,419,543; June 13.
Motor: *See*—
Alternating-current motor. Hydrocarbon motor.
Fluid motor.
Motor cycles, Seat support for. J. C. Nelson. No. 1,419,294; June 13.
Motors, Controller for electric. H. W. Stevens. No. 1,419,178; June 13.
Mouthpiece. H. G. Pape. No. 1,419,513; June 13.
Music holder, Folding. C. I. Fuller. No. 1,419,668; June 13.
Musical instruments, Making plates for. F. M. Ashley. No. 1,419,440; June 13.
Nail puller. A. Schrem. No. 1,419,412; June 13.
Neckwear, Men's. J. A. Hewes. No. 1,419,137; June 13.
Needle-pointing machine. R. A. Hutchinson. No. 1,419,140; June 13.
Nonskid chain. C. I. Peak. No. 1,419,751; June 13.
Nut lock. E. H. Bechberger. (Reissue.) No. 15,379; June 13.
Nut lock. R. T. Hosking. No. 1,419,564; June 13.
Nut, Rotary sectional inspective. D. C. Klausmeyer. No. 1,419,906; June 13.
Oils, Apparatus for burning hydrocarbon. C. E. Chapman. No. 1,419,223; June 13.
Oils, Refining. M. Reynolds. No. 1,419,760; June 13.
Orchard heater. H. D. Keller. No. 1,419,570; June 13.
Ores, Method of and apparatus for smelting. V. Pazos y Sacio. No. 1,419,764; June 13.
Organs, Wind chest and valve action for. J. Topp. No. 1,419,703; June 13.
Oven for toasting cereal foods. P. W. Foster. No. 1,419,131; June 13.
Ovens, Bottle-feeding mechanism for annealing. W. Stender. No. 1,419,324; June 13.
Packing machine for cutting slab. W. J. Kent. No. 1,419,144; June 13.

Pad: *See*—
Memorandum pad.
Padlock. E. A. Christoph. No. 1,419,358; June 13.
Padlock mechanism. E. A. Christoph. No. 1,419,359; June 13.
Pan: *See*—
Baking pan. Gold pan.
Panels and forming same. Closed pocket for. C. H. Carlok. No. 1,419,490; June 13.
Paper. Carbon. E. L. Burnett. No. 1,419,217; June 13.
Paper cups, Blank for. D. F. Curtin. (Reissue.) No. 15,381; June 13.
Paper-drying machine. W. M. Barber. No. 1,419,534; June 13.
Paper receptacles, Machine for forming. C. J. and C. F. Brown. No. 1,419,355; June 13.
Paper toilet box. M. M. and F. B. Gordon. No. 1,419,671; June 13.
Paper transparent and making same. Composition for rendering. S. H. Parrish. No. 1,419,750; June 13.
Pastils, Machine for making. C. A. Kloepping. No. 1,419,147; June 13.
Pastry-cone machine. L. H. Esselmann. No. 1,419,622; June 13.
Pastry-making machines, Cutter for. C. R. Lentz. No. 1,419,276; June 13.
Pattern: *See*—
Garment pattern.
Pen and pencil grip. T. M. Harrigan. No. 1,419,257; June 13.
Pen, Fountain. F. M. Ashley. No. 1,419,439; June 13.
Pen, Lettering. W. F. Barch. No. 1,419,441; June 13.
Phenylglycine bodies, Making. L. E. H. Cone. No. 1,419,720; June 13.
Phonograph. J. T. Leitch. No. 1,419,459; June 13.
Phonograph. C. J. and S. L. M. Pearson. No. 1,419,514; June 13.
Phonograph brake. R. G. Brown. No. 1,419,214; June 13.
Phonograph records, Apparatus for making. R. Head. No. 1,419,851; June 13.
Phonographs, Disk-record container for. A. G. Blocker. No. 1,419,487; June 13.
Phonographs, Nonset stop for. W. O. Meissner. No. 1,419,164; June 13.
Phonographic sound box. W. E. C. Lau. No. 1,419,505; June 13.
Photographic arts, Translucent medium for use in. F. W. Hochstetter. No. 1,419,379; June 13.
Photometer chart. L. Kellogg. No. 1,419,385; June 13.
Piano action, Player-. G. Bedford. No. 1,419,349; June 13.
Pick. E. H. Watt. No. 1,419,787; June 13.
Picture machines, Automatic stop for motion-. D. S. Reid. No. 1,419,759; June 13.
Picture machines, Fire preventer for moving-. J. Beckham. No. 1,419,206; June 13.
Pipe cleaner. W. Müller. No. 1,419,886; June 13.
Pipes and bars, Bending device for. F. B. Potter. No. 1,419,755; June 13.
Pistol, Cap. A. F. Lent. No. 1,419,742; June 13.
Piston and connecting rod. H. B. Johnston. No. 1,419,736; June 13.
Piston and piston ring. W. W. Burns. No. 1,419,715; June 13.
Piston and piston ring. W. W. Burns. No. 1,419,813; June 13.
Piston and piston ring. H. B. Johnston. No. 1,419,857; June 13.
Piston ring. W. R. Heslewood and H. F. Mocine. No. 1,419,672; June 13.
Piston ring. A. J. H. Kuhsiek and A. Mayer. No. 1,419,150; June 13.
Piston ring. F. G. Scozzafava. No. 1,419,413; June 13.
Piston ring. C. W. Trippensee. No. 1,419,781; June 13.
Piston-ring-testing machine. E. F. Ulrich. No. 1,419,428; June 13.
Plane iron. N. D. Merwin. No. 1,419,400; June 13.
Planetary transmissions, Attachment for. B. C. Gentry and G. R. Hoffman. No. 1,419,371; June 13.
Plaster terminal. L. E. Curtis. No. 1,419,232; June 13.
Plastic composition. W. T. Fels. No. 1,419,665; June 13.
Plotting instrument. F. R. Santori. No. 1,419,645; June 13.
Plow. A. Lobberger. No. 1,419,743; June 13.
Poles, Device for use in climbing. W. L. Horning. No. 1,419,563; June 13.
Potato-harvesting machine. M. D. J. G. Bardowick. No. 1,419,800; June 13.
Post: *See*—
Inner-tube-stripping post.
Pot: *See*—
Brake controlling dash pot. Combination pot.
Power, Method and apparatus for generating. A. T. Kasley. No. 1,419,267; June 13.
Press: *See*—
Cider press.
Printing machine, Ticket and label. D. C. Wright and E. W. Cornell. No. 1,419,345; June 13.
Projectile, Armor-piercing. J. L. Cox. No. 1,419,361; June 13.
Pulp-stone burr. T. W. Ward and B. F. Mellen. No. 1,419,785; June 13.
Puller: *See*—
Nail puller.
Pump. C. S. Kurtz. No. 1,419,151; June 13.
Pump. G. W. Wright. No. 1,419,436; June 13.
Pump, Circulating. H. F. Schmidt. No. 1,419,692; June 13.
Pump, Compression. F. S. Carver. No. 1,419,221; June 13.
Pump, Liquid-dispensing. J. Kosman and M. Grzesik. No. 1,419,572; June 13.
Pump, Oil well. C. D. Fator. No. 1,419,495; June 13.
Pumping system. H. E. La Bour. No. 1,419,273; June 13.
Pyrotechnic composition. H. J. Nichols. No. 1,419,295; June 13.
Rack: *See*—
Shoe rack.
Radiator support, Wall-. A. Lettich. No. 1,419,575; June 13.
Radiators, Apparatus for repairing and testing. A. Horn. No. 1,419,260; June 13.
Radiodynamic occulting system. J. H. Hammond, Jr. No. 1,419,377; June 13.
Rail-fastening means. S. B. Kull. No. 1,419,865; June 13.
Rail joint. E. Fixter. No. 1,419,726; June 13.
Rail tie. I. Plost. No. 1,419,643; June 13.
Railway and other vehicles, Coupling for. F. R. Rand and T. H. Sanders. No. 1,419,757; June 13.
Railway draft-gear yokes, Manufacture of. H. T. Anderson. No. 1,419,346; June 13.
Railway gate. B. Izzo. No. 1,419,856; June 13.
Railway gate, Electrical-control. J. H. Taylor and E. F. La Fray. No. 1,419,424; June 13.
Railway signaling and train-control system. J. A. Miller. No. 1,419,289; June 13.
Railway tie, Steel. O. Burrell. No. 1,419,814; June 13.
Railway traffic-controlling apparatus. L. V. Lewis. No. 1,419,869; June 13.
Rake: *See*—
Agricultural rake.
Range, Water-heating. W. T. Fling. No. 1,419,367; June 13.
Rat trap. P. Orbe. No. 1,419,299; June 13.
Razors, Hair trimming or cutting attachment for safety. D. W. Wilson. No. 1,419,187; June 13.
Receptacle. W. M. Pease. No. 1,419,304; June 13.
Receptacle. O. O. Sheline. No. 1,419,315; June 13.
Receptacle cover. T. H. Hart. No. 1,419,850; June 13.
Receptacle, Dumping. F. Fiuckh. No. 1,419,666; June 13.
Receptacles, Apparatus for making. M. Gerson. No. 1,419,248; June 13.
Receptacles, Making hooped metallic. F. G. Wacker. No. 1,419,705; June 13.
Reciprocating engine. J. McKechnie. No. 1,419,159; June 13.
Reed-pipe resonator. J. T. Austin. No. 1,419,486; June 13.
Reel: *See*—
Clothesline reel.
Refrigerating apparatus. H. C. Buchere. No. 1,419,215; June 13.
Regulating system, Automatic. L. W. Thompson. No. 1,419,778; June 13.
Resilient wheel. W. and J. C. Erdwins. No. 1,419,242; June 13.
Rewinding apparatus. C. Di Como. No. 1,419,826; June 13.
Rims and bands, Machine for sizing and punching. W. R. Edwards and J. Lukes. No. 1,419,619; June 13.
Ring: *See*—
Piston ring.
Ring-groove cleaner. L. E. Weddle. No. 1,419,790; June 13.
Rivet breaker. H. Keller. No. 1,419,269; June 13.
Rod: *See*—
Curtain rod.
Rod socket. H. W. Todd. No. 1,419,780; June 13.
Roofing, Machine for making ornamental. F. C. Overbury. No. 1,419,169; June 13.
Roller: *See*—
Cigarette roller.
Safety lock device, Automatic. O. H. Paschke. No. 1,419,469; June 13.
Sand-blast apparatus. O. A. Forsberg. No. 1,419,130; June 13.
Sanitary closet, Self-contained. I. N. Russell and G. W. Grayson. No. 1,419,587; June 13.
Sash fastener. H. S. Dunbar. No. 1,419,128; June 13.
Sausage-linking machine. C. J. Will. No. 1,419,529; June 13.
Saw. A. W. Chiddix. No. 1,419,819; June 13.
Scale. G. Wenzelmann. No. 1,419,336; June 13.
Scale, Weighing. O. Schmidt. No. 1,419,766; June 13.
Scraper, Road. F. R. Morton. No. 1,419,642; June 13.
Screw jack. F. De Benedetti. No. 1,419,544; June 13.
Screw plug and making same. T. L. Ryerson. No. 1,419,588; June 13.
Scrubber. W. G. Laird. No. 1,419,867; June 13.
Seat: *See*—
Cushioned seat.
Seed drill. A. E. Nightingale. No. 1,419,296; June 13.
Separator: *See*—
Asbestos-fiber separator. Coin separator.
Separator. H. M. Wade. No. 1,419,429; June 13.
Sewing-machine bobbin case. L. E. Weaver. No. 1,419,185; June 13.
Sewing-machine illuminating device. J. Corbe. No. 1,419,822; June 13.

Sewing-machine needle guard. J. Chertok. No. 1,419,718; June 13.
Sewing machines, Controller for electrically-driven. D. M. Durkee. No. 1,419,723; June 13.
Sheet-feeding mechanism. R. Hitchcock. No. 1,419,733; June 13.
Sheet-metal can. I. E. Sexton. No. 1,419,314; June 13.
Sheet-registering device. C. P. Klorer. Nos. 1,419,148–9; June 13.
Sheet-registering device. W. H. Smith. No. 1,419,175; June 13.
Sheet-registering mechanism. J. White. No. 1,419,595; June 13.
Shield. H. L. Smith. No. 1,419,322; June 13.
Shield, Vision. H. L. Smith. No. 1,419,321; June 13.
Ship propulsion, Electric. C. Macmillan. No. 1,419,874; June 13.
Shock absorber. C. W. Coburn. No. 1,419,614; June 13.
Shock absorber. W. H. Gaines. No. 1,419,838; June 13.
Shock absorber. J. M. Kerr. Nos. 1,419,629–31; June 13.
Shock absorber. B. Smartt. No. 1,419,320; June 13.
Shock absorber and spring support, Combined. F. F. Keeler, Sr. No. 1,419,268; June 13.
Shoe. D. Koch. No. 1,419,676; June 13.
Shoe heel. T. Bibicos. No. 1,419,444; June 13.
Shoe heel. F. P. Marx. No. 1,419,637; June 13.
Shoe rack. F. Mathews. No. 1,414,163; June 13.
Shoe rack and making it. H. L. Glidden. No. 1,419,250; June 13.
Shoe tongue, Nonslipping. G. Badich. No. 1,419,199; June 13.
Shoes, Making. A Bates. No. 1,419,201; June 13.
Shoes, Making. A. Bates. No. 1,419,203; June 13.
Shuttle embroidering machine. G. Sieber. No. 1,419,317; June 13.
Shuttle-throwing mechanism. C. H. Stralucke. No. 1,419,776; June 13.
Sign. A. E. Kline. No. 1,419,863; June 13.
Signal: *See*—
Automobile traffic signal. Vehicle signal.
Signal-governing apparatus. A. I. Woodring. No. 1,419,435; June 13.
Signaling apparatus. F. W. Wood. No. 1,419,708; June 13.
Sirup cooler. T. Werner. No. 1,419,337; June 13.
Sled, Motor. G. A. Amburson. No. 1,419,483; June 13.
Sleighs or sleds, Wheel attachment for. G. J. Godin. No. 1,419,558; June 13.
Slicing machine. R. E. Slayton. No. 1,419,418; June 13.
Sling, Shot-putting. G. B. Miles. No. 1,419,682; June 13.
Sludge-table block. F. Dunham. No. 1,419,830; June 13.
Snowplow. J. O. Johnson. No. 1,419,263; June 13.
Soap holder, strainer, and scoop. J. N. Dell. No. 1,419,545; June 13.
Sodium carbonate, Purifying. F. H. Merrill. No. 1,419,463; June 13.
Soldering machine for can bodies, Side-seam-. J. Brenzinger. No. 1,419,211; June 13.
Sound box. F. Stevens. No. 1,419,774; June 13.
Spacing members, Device for positioning. H. M. Rockwell. No. 1,419,520; June 13.
Spark plug. H. W. Aschinger. No. 1,419,197; June 13.
Spark plug. R. C. Berry. No. 1,419,904; June 13.
Speed driving mechanism for tractors, Variable-. J. B. Foote. No. 1,419,243; June 13.
Spotlights, Bracket and limiting device for. R. E. Williams. No. 1,419,431; June 13.
Sprinkler: *See*—
Lawn sprinkler.
Stage wings, Clamp and brace for. G. J. Hanlon. No. 1,419,848; June 13.
Stairs, Adjustable tread. D. W. Fellows. No. 1,419,834; June 13.
Stand: *See*—
Display stand.
Steel tubes, Treatment by pressure of cast and forged. A. E. Guy. No. 1,419,845; June 13.
Steering wheel. F. D. Wilson. No. 1,419,434; June 13.
Stenciling device. R. W. Erdle. No. 1,419,663; June 13.
Step-cutting device. C. H. Madsen. No. 1,419,875; June 13.
Still. S. E. Oliver. No. 1,419,894; June 13.
Stokers, Air-distributing box for. A. Wathey. No. 1,419,183; June 13.
Storage battery. F. G. Manwaring. No. 1,419,396; June 13.
Storage-battery terminal posts, Sealing structure for. P. E. Norris. No. 1,419,511; June 13.
Store-service apparatus. J. L. Baldwin. No. 1,419,200; June 13.
Stove, Gas. F. E. White. No. 1,419,792; June 13.
Stove leg, Adjustable. F. F. Ferch. No. 1,419,835; June 13.
Sulphate of lead water paste into oil paste, Conversion of. D. Wythe. No. 1,419,655; June 13.
Supply tank, Reserve-. H. H. Kleinberg. No. 1,419,145; June 13.
Surface gauge, Indicating. W. H. Reisner. No. 1,419,306; June 13.
Suspender supporter. J. F. Bear. No. 1,419,802; June 13.
Swing. C. J. Clouser. No. 1,419,660; June 13.
Swing hanger. C. W. Birch. No. 1,419,806; June 13.
Switch: *See*—
Centrifugal switch. Float switch.
Handlamp switch.
Switch, Handlamp. G. D. Gallagher. Nos. 1,419,728–9; June 13.
Switching system. J. B. Harlow. No. 1,419,561; June 13.
T-squares. W. L. Boon. No. 1,419,354; June 13.
Tableware, Article of. L. Stollerman. No. 1,419,591; June 13.
Tag, Hay and straw. G. des T. Maisons. No. 1,419,161; June 13.
Tail-light and license-plate holder. W. P. Mendenhall. No. 1,419,745; June 13.
Tailor's try-on clasp. F. V. Moren. No. 1,419,165; June 13.
Talking-machine sound box. J. C. Drake. No. 1,419,238; June 13.
Tank: *See*—
Acetylene tank. Supply tank.
Fuel tank.
Telegraph distribution, System of. L. M. Potts. No. 1,419,409; June 13.
Telegraphs, Transmitter for selective or printing. C. L. and H. L. Krum. No. 1,419,677; June 13.
Telephone accessory. J. Fleischman. No. 1,419,551; June 13.
Telephone-exchange system. C. W. Keckler. No. 1,419,569; June 13.
Telephone muffler. T. Benedict. No. 1,419,606; June 13.
Telephone systems, Lockout mechanism for intercommunicating. T. H. Nelson. No. 1,419,403; June 13.
Terminal connection, Motor. I. E. Kinser. No. 1,419,571; June 13.
Textile-machinery stopping mechanism. E. F. Hathaway. No. 1,419,731; June 13.
Theater, Picture-projection. A. L. Macbeth. No. 1,419,281; June 13.
Theatrical appliance. E. H. Acker. No. 1,419,191; June 13.
Thermionically-active substance. W. Wilson. No. 1,419,530; June 13.
Thermostat. J. E. Gee. No. 1,419,246; June 13.
Thermostat or the like, Time-controlled. C. L. Fortier. No. 1,419,667; June 13.
Thrashing machine. G. P. Luedke. (Reissue.) No. 15,384; June 13.
Tie: *See*—
Rail tie. Railway tie.
Tile-molding machine. B. L. Bacot. No. 1,419,198; June 13.
Tire and rim lock, Automobile. J. Zahler. No. 1,419,796; June 13.
Tire attachment. S. J. Moss. No. 1,419,885; June 13.
Tire carrier and tool box, Combination. E. Johnson. No. 1,419,456; June 13.
Tire casings, Manufacture of pneumatic. J. V. Worthington. No. 1,419,907; June 13.
Tire lock. W. T. Campbell. (Reissue.) No. 15,380; June 13.
Tire mold. M. A. Marquette. No. 1,419,577; June 13.
Tire patch. J. S. Fritz. No. 1,419,453; June 13.
Tire, Pneumatic. I. A. Reasoner and D. J. Flintjer. No. 1,419,470; June 13.
Tire rim. A. L. Putnam. No. 1,419,170; June 13.
Tire, Rubber. A. Witzel. No. 1,419,343; June 13.
Tire, Sectional pneumatic. W. H. Schroeder. No. 1,419,768; June 13.
Tire-tube carrier, Auto. C. Jerabek. (Reissue.) No. 15,383; June 13.
Tires, Armor for vehicle. V. P. Ratzburg. (Reissue.) Nos. 15,386–7; June 13.
Tires, Making. M. A. Marquette. No. 1,419,879; June 13.
Toilet-seat cover and pad of toilet paper, Sanitary. M. G. and J. H. Brewer. No. 1,419,212; June 13.
Tongue support. C. Pearson. No. 1,419,303; June 13.
Tonometer. I. Goldstein. No. 1,419,134; June 13.
Tool kit for motor vehicles. R. F. Nelson. No. 1,419,166; June 13.
Toothbrush sterilizer and retainer. S. H. Thompson. No. 1,419,593; June 13.
Top, Spinning. S. Szucs. No. 1,419,651; June 13.
Toy. T. M. Samour. No. 1,419,690; June 13.
Toy machine gun. A. W. Savage. No. 1,419,646; June 13.
Toy, Optical. H. W. Akroyd. No. 1,419,657; June 13.
Toy, Sounding. J. R. Kidney. No. 1,419,632; June 13.
Toy telephone. C. M. Watrous. No. 1,419,902; June 13.
Toy, Whirligig. G. W. Mosher. No. 1,419,402; June 13.
Track connection, Overhead-. A. H. Neller. No. 1,419,684; June 13.
Track-spraying apparatus. J. Nicholson. No. 1,419,686; June 13.
Traction band. B. H. Ashby. No. 1,419,533; June 13.
Traction engine. A. W. Porter. No. 1,419,689; June 13.
Traction engines and other purposes, Endless track or belt or chain tightening mechanism for. J. G. Leyner. No. 1,419,156; June 13.
Traction machine. E. R. Beeman. No. 1,419,605; June 13.
Tractor control. E. A. Johnston. No. 1,419,264; June 13.
Tractor gearing. G. W. Dunham. No. 1,419,240; June 13.
Trailers, Coupling device for. M. Mason. No. 1,419,398; June 13.
Transmission mechanism. J. Q. Sherman and A. W. Metzner. No. 1,419,174; June 13.
Trap: *See*—
Rat trap.
Trap nest. C. J. Williams. No. 1,419,340; June 13.
Trash cutter. G. D. Luce. No. 1,419,158; June 13.
Traveling crane. B. F. Fitch. No. 1,419,129; June 13.
Trench-forming machine. T. K. White. No. 1,419,480; June 13.

Trolley harp. M. P. Enyeart. No. 1,419,365; June 13.
Trousers. H. Brouder. No. 1,419,127; June 13.
Truck. A. Watson. No. 1,419,184; June 13.
Truck body, Extensible. J. T. McKinnon. No. 1,419,160; June 13.
Truck, Mine-car. J. M. Cameron. No. 1,419,218; June 13.
Trucks, Combined draw-bar and axle supporting apparatus for car. C. S. Card. No. 1,419,716; June 13.
Trunk drawers, Locking means for. G. H. Wheary. No. 1,419,594; June 13.
Tube: *See*—
Flow tube. Inner tube.
Tubular hollow body. C. Dornier. No. 1,419,828; June 13.
Turbines, Lubrication for steam. H. H. Wait. No. 1,419,706; June 13.
Turbocompressor control. E. H. Sherbondy. No. 1,419,316; June 13.
Typewriter escapement mechanism. O. A. Hokanson. No. 1,419,138; June 13.
Typewriting machine. F. H. Armstrong. No. 1,419,196; June 13.
Typewriting machine. F. H. Armstrong and E. L. Harmon. No. 1,419,195; June 13.
Typewriting machine. J. E. Davidson. No. 1,419,617; June 13.
Typewriting machine. A. G. F. Kurowski. No. 1,419,635; June 13.
Typewriting machine. H. Resch. No. 1,419,172; June 13.
Typewriting machine. J. A. B. Smith. Nos. 1,419,648–9; June 13.
Typewriting machine. J. A. B. Smith. No. 1,419,698; June 13.
Typewriting machine. J. Waldheim. No. 1,419,182; June 13.
Typewriting machines, Sound-muffling pad for. L. C. Myers. No. 1,419,293; June 13.
Upper-forming and other machines, Work-positioning mechanism for. M. Brock. No. 1,419,213; June 13.
Upper-shaping machine. A. Bates. No. 1,419,202; June 13.
Upper-shaping machine. A. Bates. No. 1,419,204; June 13.
Urea from cyanamide, Producing. E. Lie. No. 1,419,157; June 13.
Utensil. M. Szymkiewicz. No. 1,419,423; June 13.
Valve. Z. Littman. No. 1,419,678; June 13.
Valve. T. W. Monahan. No. 1,419,290; June 13.
Valve. L. Skinner. No. 1,419,474; June 13.
Valve. O. A. Sorensen. No. 1,419,650; June 13.
Valve cut-off and speed indicator. V. Z. Caracristi. No. 1,419,612; June 13.
Valve for steam traps. W. Wanstall. No. 1,419,784; June 13.
Valve-grinding tool. G. W. Helmer. No. 1,419,628; June 13.
Valve, Inflation. C. J. Reynolds. No. 1,419,471; June 13.
Valve, Internal-combustion-engine. J. Good. (Reissue.) No. 15,382; June 13.
Valve mechanism, Steam-engine-. E. T. Cunliffe. No. 1,419,362; June 13.
Valve- Mixing. J. J. Grebe. No. 1,419,254; June 13.
Valve, Pneumatic. Z. Littman. No. 1,419,679; June 13.
Valve, Safety. K. Stahl. No. 1,419,177; June 13.
Vegetable and fruit counter. E. E. Boone. No. 1,419,209; June 13.
Vegetable cutter and crusher. C. R. Hartman. No. 1,419,499; June 13.
Vehicle. F. A. Smith. No. 1,419,475; June 13.
Vehicle bumper. L. M. Singer. No. 1,419,417; June 13.
Vehicle hood. G. Voisin. No. 1,419,704; June 13.
Vehicle signal. E. W. House. No. 1,419,854; June 13.
Vehicle signal. F. Reidl. No. 1,419,505; June 13.
Vehicle signaling device. J. F. Strombom. No. 1,419,777; Jun. 13.
Vehicle stopping device. W. Fial. No. 1,419,366; June 13.
Vehicle suspension springs, Bumper attachment for. W. G. Cox. No. 1,419,228; June 13.
Vehicle top. G. Baehr. No. 1,419,790; June 13.
Vehicle, Transformable. R. Scherl. No. 1,419,769; June 13.
Vehicle truck. E. F. Norelius. No. 1,419,510; June 13.
Vehicle wheel. R. R. Vale. No. 1,419,329; June 13.
Vehicles and aircrafts, Electrical equipment of motor. F. H. Bowman and R. L. Aspden. No. 1,419,607; June 13.
Vehicles, Cold-weather starter for motor-driven. E. C. and E. A. Gehrke. No. 1,419,840; June 13.
Vehicles, Ice-rut remover for. L. E. Beers. No. 1,419,350; June 13.
Vehicles, Lock for motor. J. Klasnich. No. 1,419,861; June 13.
Vehicles, Propelling attachment for children's. F. S. Seagrave. No. 1,419,312; June 13.
Vehicles, Starting and lighting system for motor. J. K. Delano. No. 1,419,825; June 13.
Velocipede. W. R. Williams. No. 1,419,341; June 13.
Vending machine, Bottled-drink-. J. H. Carroll. Nos. 1,419,219–20; June 13.
Vending machine, Stamp-. E. A. Bolen. No. 1,419,353; June 13.
Vessels, Detachable handle for. J. J. Kirby. No. 1,419,860; June 13.
Viscose silk, Manufacture of. E. Bronnert. No. 1,419,714; June 13.
Vise, Anvil horseshoe. E. Frazer. No. 1,419,132; June 13.
Voltage-regulator system. E. Lehr. No. 1,419,458; June 13.
Wagon reach bar. J. A. Moxey. No. 1,419,291; June 13.
Wall construction, Brick. A. D. Bigler. No. 1,419,805; June 13.
Washing apparatus. E. M. Maull. No. 1,419,399; June 13.
Washing machine. F. E. Ormsby. No. 1,419,300; June 13.
Washing machine. R. D. Tittle. No. 1,419,427; June 13.
Water closet. J. M. Teahen and W. Taylor. No. 1,419,328; June 13.
Water heater. W. Colebrook. No. 1,419,225; June 13.
Waterproof stock feeder. J. Osnes, C. Halverson, and D. S. Foley. No. 1,419,468; June 13.
Wedge, Absorption. E. H. Fisher. No. 1,419,725; June 13.
Weighing machine, Automatic. E. Gase. No. 1,419,557; June 13.
Welding tool. R. Mattice. No. 1,419,744; June 13.
Welding torch. R. B. Oman. No. 1,419,168; June 13.
Wheel: *See*—
Apron wheel. Steering wheel.
Automobile spring wheel. Vehicle wheel.
Resilient wheel.
Wheel. R. H. Martin. No. 1,419,162; June 13.
Wheel. S. E. Robertson. No. 1,419,762; June 13.
Wheel rim. J. S. Nichols, S. T. Billingsly, and H. E. Scoggins. No. 1,419,889; June 13.
Wheel rims and tires, Carrier and retractor for. W. You. No. 1,419,531; June 13.
Wheels, Traction tread for. H. A. Hunter. No. 1,419,503; June 13.
Winding device. V. E. Extrom. No. 1,419,832; June 13.
Window adjuster. A. Olfort. No. 1,419,893; June 13.
Window-cleaning device. W. H. A. Brown. No. 1,419,356; June 13.
Window screens, Corner brace for. S. Brendza. No. 1,419,608; June 13.
Window, Storm. F. D. Hunt. No. 1,419,384; June 13.
Windshield. S. A. Sena. No. 1,419,414; June 13.
Wire-link machine. G. B. Smith. No. 1,419,476; June 13.
Wire, Pile. R. E. Thompson. No. 1,419,527; June 13.
Wireless control apparatus. J. H. Hammond, Jr. No. 1,419,376; June 13.
Wood-pulp fibers, Machine for pressing. C. L. Hamilton. No. 1,419,847; June 13.
Wrench. D. C. Bettison. No. 1,419,659; June 13.
Wrench. N. G. Larson. No. 1,419,391; June 13.
Wrench. G. A. Lexander. No. 1,419,870; June 13.
Wrench. C. A. Olson. No. 1,419,404; June 13.
Wrench. W. C. Sheppard. No. 1,419,525; June 13.
Wringer: *See*—
Mop wringer.
X-ray cabinet. E. L. Edwards. No. 1,419,241; June 13.
Zinc cups intended for dry cells, Manufacture of. E. I. Gatson. No. 1,419,839; June 13.

ALPHABETICAL LIST OF DESIGNS.

Bottle. F. H. Wendt. No. 61,075; June 13.
Cabinet, Kitchen. L. Tokarski. No. 61,074; June 13.
Electric fixture. T. E. Dahl. No. 61,065; June 13.
Electric fixture arm. T. E. Dahl. No. 61,062; June 13.
Lighting-fixture arm. T. E. Dahl. No. 61,068; June 13.
Lighting-fixture band. T. E. Dahl. No. 61,064; June 13.
Lighting-fixture bracket back. T. E. Dahl. No. 61,061; June 13.
Lighting-fixture canopy. T. E. Dahl. No. 61,072; June 13.
Lighting-fixture loop. T. E. Dahl. No. 61,059; June 13.
Lighting-fixture loop. T. E. Dahl. No. 61,070; June 13.
Lighting-fixture plate. T. E. Dahl. No. 61,063; June 13.
Lighting fixtures, Band for. T. E. Dahl. No. 61,073; June 13.
Lighting fixtures, Candle cup for. T. E. Dahl. No. 61,060; June 13.
Lighting fixtures, Candle cup for. T. E. Dahl. No. 61,071; June 13.
Lighting fixtures, Electric arm for. T. E. Dahl. Nos. 61,066–7; June 13.
Lighting fixtures, Pan for candle cups for. T. E. Dahl. No. 61,069; June 13.
Ring or similar article. M. Bauman. No. 61,058; June 13.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Almonds, Salted. Mrs. E. L. Thornhill. No. 156,069; June 13.
Ammonia. Condensed Bluing Co. No. 155,947; June 13.
Analgesic and medicine for neuralgia, headache, toothache, etc., General. Societe Civile des Heritiers de P. Basset. No. 156,058; June 13.
Apples, Fresh. Wenatchee Fruit & Warehouse Co. No. 156,078; June 13.
Automobile and engine parts and accessories. Burgess-Norton Mfg. Co. No. 155,936; June 13.
Automobiles, Key-locking radiator caps for. W. A. Hanna. No. 155,974; June 13.
Bath robes, sacks, buntings, flannelettes. Onita Specialty Co. No. 156,033; June 13.
Bathing suits and playsuits. O'Shea Knitting Mills. No. 156,035; June 13.
Bathroom fixtures, Certain wire and steel. E. H. Titchener & Co. No. 156,072; June 13.
Bearings, Journal. Oregon Brass Works. No. 156,034; June 13.
Beverages and sirups for making same. John Mulhern Co. No. 156,015; June 13.
Beverages and sirups for manufacture of same, Nonalcoholic. Orange-Smash Co. No. 156,141; June 13.
Bibs and aprons, Children's. A. M. Dunsworth. No. 155,953; June 13.
Bird gravel. J. O. Johnson. No. 155,993; June 13.
Bonbon coating. White-Stokes Company. No. 156,082, June 13.
Books, loose-leaf ledger sheets, bill heads, statements, etc., Blank. F. W. Erhard. No. 155,955; June 13.
Boots and shoes. Wm. Filene's Sons Company. No. 155,961; June 13.
Boots and shoes and boot and shoe soles, Leather. Holland Shoe Co. No. 156,130; June 13.
Boots and shoes, Leather. Lounsbury Souie Co. No. 156,003; June 13.
Boots, shoes, and slippers. J. W. Carter Chicago, Co. No. 155,944; June 13.
Bottle-capping machines. Sure Seal Bottle Capper Co. No. 156,066; June 13.
Brassières, bandeaux, corsets, hip girdles, etc. Charles H. Scott Company. No. 156,051; June 13.
Brassières, corsets, corset waists, corset covers, dresses, waists, etc. American Lady Corset Co. No. 156,091; June 13.
Brick for the wearing surface of road paving. J. R. Root. No. 156,046; June 13.
Cameras, optical lenses, sensitized glass plates, etc. C. A. P. Ivens. No. 155,986; June 13.
Candies. Mari-Bell Sweets. No. 156,006; June 13.
Candies. Standard Candy Co. No. 156,060; June 13.
Candies and chocolates. E. P. Lewis. No. 156,000; June 13.
Candy. Euclid Candy Company. No. 155,957; June 13.
Candy. Robt. F. Mackenzie Co. No. 156,004; June 13.
Candy. New England Confectionery Company. Nos. 156,021–30; June 13.
Candy. Stewart-Bartlett Candy Co. Nos. 156,062–3; June 13.
Candy. Fred J. Naight & Co. No. 156,076; June 13.
Canned chowder. Maurice River Packing Co. No. 156,009; June 13.
Canned fish. Coast Fishing Co. No. 156,115; June 13.
Canned foodstuffs. W. H. Killian Co. No. 155,994; June 13.
Canned fruits. California Co-Operative Canneries. Nos. 155,941–2; June 13.
Canned pineapples. West Indies Fruit Importing Co. No. 156,080; June 13.
Canned salmon and tuna. E. L. Heebner. No. 155,977; June 13.
Carbon remover. Motor-Kleen Corporation. No. 156,140; June 13.
Cement, Portland. Old Mission Portland Cement Company. No. 156,032; June 13.
Cement tiles for walls and floors. Angelo Repetto Company. No. 155,923; June 13.
Chimneys and brick settings for boilers, Brick and concrete. Rust Engineering Company. No. 156,049; June 13.
Chisels and punches, Cold. Western Tool & Forge Company. No. 156,081; June 13.
Chocolate confectionery. G. J. Johnson. No. 155,991; June 13.
Chocolate, Pastils of. Naamlooze Vennootschap Droste's Cacao-en Chocoladefabrieken. No. 156,017; June 30.
Chocolates, candies, peanut butter, bonbons. Smith-Kirk Candy Co. No. 156,056; June 13.
Chocolates and candy. Smith-Kirk Candy Co. No. 156,057; June 13.
Cigarettes. B. Muratti Sons and Company. No. 156,016; June 13.
Cigars, cigarettes, and tobacco. Falk Tobacco Company. No. 155,959; June 13.

Clothing, Certain articles of. American Lady Corset Co. No. 156,092; June 13.
Clothing, Certain articles of. American Wholesale Corporation (Baltimore Bargain House). No. 155,920; June 13.
Clothing, Certain articles of. Winship, Boit & Co. No. 156,087; June 13.
Clothing for men, young men, and boys. H. B. Rosenthal-Ettlinger Co. No. 156,047; June 13.
Clothing, hats, caps, and flannel shirts. J. J. & W. Wilson Limited. No. 21,099; renewed May 10, 1922.
Cloths, Dusting and cleaning. S. Birkenstein & Sons, Incorporated. No. 156,102; June 13.
Coal. Beatty Coal Company. No. 155,927; June 13.
Coal. T. O. Busbee. No. 155,939; June 13.
Coal. T. C. Irwin. No. 155,985; June 13.
Coats for ladies and misses, Plush. John & James Dobson, Inc. Nos. 155,988–90; June 13.
Compressors, vapor condensers, and liquid evaporators, Air and gas. Griscom-Russell Company. No. 155,972; June 13.
Confections, Candy. S. C. Bias. No. 155,929; June 13.
Construction materials, Certain. Bloedel Donovan Lumber Mills. No. 155,932; June 13.
Construction materials, Certain. Heppes-Nelson Roofing Company. No. 155,979; June 13.
Construction materials, Certain. Tuco Products Corporation. No. 156,073; June 13.
Construction materials, Certain. G. Wenzelmann. No. 156,079; June 13.
Corsets. Lord & Taylor. No. 156,002; June 13.
Corsets. Rite Form Corset Co. No. 156,142; June 13.
Corsets. Weingarten Bros., Inc. No. 156,151; June 13.
Corsets, brassières, corset waists, girdles, hose supporters, dresses, hosiery, and underwear. American Lady Corset Co. Nos. 156,093–7; June 13.
Corsets, brassières, under bodices, corset covers, and camisoles. Benjamin & Johnes. No. 156,101; June 13.
Cosmetics, Liquid. M. E. Wilder. No. 156,085; June 13.
Cots, stools, and chairs, Folding. Tucker Duck & Rubber Co. No. 156,147; June 13.
Creams and lotions, Face and hand. R. A. Hudson Company. No. 155,982; June 13.
Custard powder. A. L. Godwin Products Company. No. 155,968; June 13.
Cutlery, machinery, and tools, Certain. Gomez & Sloan, Inc. No. 155,969; June 13.
Dress shields. Brooklyn Shield & Rubber Co. No. 156,110; June 13.
Dresses and dress aprons, and children's rompers, etc., Women's house. E. Gilliman. No. 155,967; June 13.
Dresses, Ladies' and misses'. Baum, Kravat & Baum. No. 155,926; June 13.
Dresses, middy blouses. Labinger & Gerstein. No. 155,999; June 13.
Dogs, Thoroughbred. R. M. Cleveland. No. 155,945; June 13.
Dyestuffs and beeswax. Caravel Company. No. 155,943; June 13.
Engine and machine bearings and bushings. Bound Brook Oil-Less Bearing Company. No. 155,933; June 13.
Engines, Internal combustion. Willys-Overland Company. No. 156,083; June 13.
Eyeglass bridges, temple frames, mountings. F. A. Hardy & Company. No. 155,975; June 13.
Eyeglasses. J. Robinson, Cohen & Bro. No. 156,144; June 13.
Eyelet punches. Wm. Schollhorn Co. No. 156,050; June 13.
Fabrics in the piece, Pile. Sidney Blumenthal & Co. Nos. 156,103–8; June 13.
Fabrics, Certain textile shoe. A. Herzog. No. 155,980; June 13.
Feed mills, Grinding screens for. Williams Patent Crusher & Pulverizer Co. No. 156,086; June 13.
Fezes. Supreme Orient O. O. H. & P. No. 156,065; June 13.
Fishing lines. Ashaway Line & Twine Manufacturing Company. No. 156,099; June 13.
Fishing lines. B. F. Gladding & Co. Nos. 156,122–5; June 13.
Flavoring extracts for food. Garrett & Company. No. 155,966; June 13.
Flavoring and magnesite stucco, Composition. Compoloid Products Corporation. No. 155,946; June 13.
Frocks. American Apparel Corporation. No. 156,090; June 13.
Furniture, Certain household. James McCreery & Company. No. 156,136; June 13.
Garments, Children's. S. B. Preusser. No. 156,036; June 13.
Garments, Women's, misses', and children's outer. N. Souter. No. 156,059; June 13.
Garters. Everybody's Garter Co. No. 155,958; June 13.
Gears. W. H. Diefendorf. No. 155,950; June 13.

Glass cutters. Smith & Hemenway Company, No. 156,055; June 13.
Gloves, Leather. Reynier & Cie. Nos. 156,040–2; June 13.
Hack-saw blades. Mayhew Steel Products Inc. No. 156,010; June 13.
Hair. L. Levussove. No. 156,135; June 13.
Hammers, Power. C. C. Bradley & Son. No. 155,934; June 13.
Hats for women. A. C. Ammenheuser. No. 155,921; June 13.
Hats, Men's. The Fair. No. 156,120; June 13.
Hats, Men's and boys'. E. W. Bill. Nos. 155,930–1; June 13.
Hats, Men's straw. Arenjay Hat Co. No. 156,098; June 13.
Hats, Women's. A. G. Freeman. No. 155,965; June 13.
Hats, Women's, misses', girls', and children's. Wm. Filene's Sons Company. No. 155,962; June 13.
Heat-retaining material, Certain. J. R. Wood. No. 156,088; June 13.
Hosiery. T. B. Brown. No. 155,935; June 13.
Hosiery. Wm. B. Threapleton's Sons. No. 156,070; June 13.
Hosiery. Wovenright Knitting Company. No. 156,152; June 13.
Knitted coats and jackets. Yund, Kennedy & Yund. No 156,089; June 13.
Knitted underwear and hosiery. Burnstine and Nachman. No. 155,937; June 13.
Laths. Midwest Steel & Supply Company. No. 155,013; June 13.
Laths, Metal. Midwest Steel & Supply Company. No. 156,012; June 13.
Leather. Haffner Brothers Company. No. 155,973; June 13.
Leather. Hess and Hopkins Leather Company. No. 156,129; June 13.
Leather, hides, and skins, Sole and upper. Marcus, Forscher & Co. No. 156,007; June 13.
Licorice tablets or wafers. National Licorice Company. No. 156,018; June 13.
Liniment, Rubbing. W. H. Harrison. No. 155,976; June 13.
Lumber. Anderson-Tully Company. No. 155,922; June 13.
Lumber. Red River Lumber Company. Nos. 156,038–9; June 13.
Macaroni. Minnesota Macaroni Co. No. 156,014; June 13.
Mayonnaise dressing. Vogeler Bros. Inc. No. 156,075; June 13.
Medicinal preparation for gonorrhea, etc. Riedel & Co. No. 156,044; June 13.
Medicine for asthma. Templeton's Limited. No. 156,067; June 13.
Medicines for venereal diseases. Docteur H. Ferré & Cie. No. 155,960; June 13.
Nursery products, Certain. Greening Nursery Co. No. 155,971; June 13.
Oils and greases, Certain. Standard Oil Company, (Incorporated in New Jersey). No. 156,145; June 13.
Overalls, coats, jumpers, and work shirts. Winder Manufacturing Co. No. 156,084; June 13.
Overalls, work, and dress shirts, khaki pants, etc. G. D. Milligan Grocer Co. No. 156,139; June 13.
Overalls, work shirts, mackinaws, etc. W. H. Van Leeuwen, Jr. No. 156,074; June 13.
Paper clips. F. J. Kline. No. 155,995; June 13.
Paper, envelopes, and visiting cards. Essence de L'âme Perfume Co. No. 155,956; June 13.
Paper fasteners, covers, and folders, desk files, etc. F. J. Kline. Nos. 155,996–7; June 13.
Peanuts, almonds, pecans, and filberts, Salted. H. J. Meyer. No. 156,011; June 13.
Pecans and pecan-nut meats, Shelled. Shel-less Nut Co. No. 156,052; June 13.
Perfumes. M. E. Tilson. No. 156,071; June 13.
Petticoats. Burton Bros. & Co. No. 155,938; June 13.
Pickles. Madolene Pickle Corporation. No. 156,005; June 13.
Piece goods, rugs, horse clothing, wools, worsteds, yarns, and threads. J. J. & W. Wilson Limited. No. 21,100; renewed May 10, 1922.
Pins and bone rings, Dressmakers'. A. L. Clark & Co. No. 156,114; June 13.
Playsuits. F. Brody & Sons Co. No. 156,109; June 13.
Publications relating to the study of languages. Funk & Wagnalls Company. No. 156,121; June 13.
Pulps, Wood, chemical, sulphite, etc. Wayagamack Pulp & Paper Co. No 156,077; June 13.
Pumping equipment and water systems. Fort Wayne Engineering & Manufacturing Co. No. 155,964; June 13.
Railway ties, Reinforced-concrete. Ashley Railway Safety Tie and Construction Corporation. No. 155,924; June 13.
Rat poison. A. T. Curry. No. 156,117; June 13.
Record-sheet holder to be attached to automobile steering wheels and blank record sheets for said holder. R. C. Aulmann. No. 155,925; June 13.
Ring travelers. National Ring Traveler Co. Nos. 156,019–20; June 13.
Roofing, Prepared. Ford Roofing Products Co. No. 155,963; June 13.
Rubber heels and soles. Dryden Rubber Company. No. 156,118; June 13.
Sausage casings, Pork-. California Casing Co. No. 155,940; June 13.
Seed, Lawn-grass. J. O. Johnson. No. 155,992; June 13.
Seed, Sweet turnip and beet. Dr. Friedrich Bergmann, G. m. b. H. No. 155,928; June 13.
Seeds. Peter Henderson & Co. No. 155,978; June 13.
Seeds. Stark Bros. Nurseries & Orchards Co. No. 156,061; June 13.
Shirts, Dress, negligee, and work. Royal Shirt Co. No. 156,048; June 13.
Shirts, Men's dress, negligee, and work. Meyer & Stein. No. 156,138; June 13.
Shirts, Men's work and dress. Charles Alshuler Manufacturing Company. No. 156,113; June 13.
Shirts, night robes, and pyjamas, Men's. Wachusett Shirt Co. No. 156,149; June 13.
Shirts, pyjamas, and nightgowns, Dress and work. F. Jacobson & Sons. No. 156,132; June 13.
Shoes. Brown Shoe Company. Nos. 156,111–12; June 13.
Shoes. Leo Hart, Inc. No. 156,128; June 13.
Shoes. Robert Wise Company. No. 156,143; June 13.
Shoes. The Fair. No. 156,119; June 13.
Shoes and oxfords, Leather. Guthmann, Carpenter & Telling. No. 156,126; June 13.
Shoes and slippers, Felt. Little Falls Felt Shoe Company. No. 156,001; June 13.
Shoes, boots, slippers, and sandals. H. Malkin's Sons. No. 156,137; June 13.
Shoes, Children's. Craddock-Terry Company. No. 155,948; June 13.
Shoes, Girls', boys', and babies'. Van Degrift's. No. 156,148; June 13.
Shoes, Leather. Hagerstown Shoe & Legging Co. No. 156,127; June 13.
Shoes, overshoes, galoshes, moccasins, rubber boots, etc. Cohen-Sulkis Shoe Co. No. 156,116; June 13.
Snoes, Women's. John Kelly Inc. No. 156,133; June 13.
Sirup with sorghum, Corn. Temtor Corn & Fruit Products Co. No. 156,068; June 13.
Stair treads and door saddles. American Abrasive Metals Company. No. 155,916; June 13.
Steam-pipe coverings and insulations, roofing cements, and prepared roofings. Nott-Atwater Company. No. 156,031; June 13.
Steel in blocks, bars, and forgings for all kinds of machines, etc. Poldina Hut. Nos. 155,983–4; June 13.
Sweaters and scarfs. Beck Novelty Co. No. 156,100; June 13.
Tablets, Certain medicinal. Masco Drug Company. No. 156,008; June 13.
Tar compounds and rubber compositions, etc. Detroit White Lead Works. No. 155,949; June 13.
Tea. Ridenour-Baker Grocery Company. No. 156,043; June 13.
Time-recording locks. Silent Watchman Corporation. No. 156,054; June 13.
Tire pumps. J. A. Strimple. No. 156,064; June 13.
Tobacco and cigarettes. American Tobacco Company. No. 155,919; June 13.
Tobacco, cigars, cigarettes. A. Dunhill. Nos. 155,951–2; June 13.
Toilet preparations, Certain. D. Jaquet. No. 155,987; June 13.
Tonic, and blood purifier. A. M. Edwards. No. 155,954; June 13.
Tools and cutlery, Certain. Romer Axe and Tool Company. No. 156,045; June 13.
Toy made of wood, Animal. L. Raymond. No. 156,037; June 13.
Toy, Wheel push. W. M. Shelton. No. 156,053; June 13.
Tramways, etc., Certain aerial. American Steel & Wire Company of New Jersey. No. 155,918; June 13.
Trousers, Men's and boys'. Wear-Well Pants Company. No. 156,150; June 13.
Underskirts. A. R. Starkweather. No. 156,146; June 13.
Vacuum cleaners, Nonelectric. American Brush Company. No. 155,917; June 13.
Vinegar, Cider. Duffy, Mountfort & Greene Cider Company. No. 21,944; renewed Nov. 8, 1922.
Wearing apparel, Certain articles of ladies'. Irwin Cloak Company. No. 156,131; June 13.
Wearing apparel, Certain articles of ladies'. Kline Apparel Company. No. 156,134; June 13.
Wooden posts, ties, etc. Hiawatha Lumber Co. No. 155,981; June 13.
Wringers. American Wringer Company. No. 21,591; renewed Aug. 9, 1922.
Wringers. American Wringer Company. No. 21,593; renewed Aug. 9, 1922.
Yeast products. C. G. Kummerlander. No. 155,998; June 13.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Alimentary paste products. Ronzoni Macaroni Company. No. 156,415; June 13.
Antiseptics. Lehn and Fink, Inc. No. 159,600; June 13.
Apparel, Certain outing and sporting. Hirshfield Skirt Co. No. 157,151; June 13.
Apparel, Women's and misses' wearing. Finger Cahn Co. No. 152,842; June 13.
Automobile and truck wheels. Bethlehem Steel Company. No. 145,765; June 13.
Automobile. Jewett Motors. No. 160,949; June 13.
Baby carriages, baby-carrying baskets or bodies, and automobile baby carriers. Cozy Baby Carriage Company. No. 162,610; June 13.
Baking powder. Jellico Grocery Company. No. 149,083; June 13.
Balls, Bouncing. Eagle Rubber Co. No. 163,262; June 13.
Balls, Golf. Dayton Company. No. 163,329; June 13.
Bats, Baseball. Hilton Collins Co. Nos. 161,551–2; June 13.
Batteries. Vitalis Products, Incorporated. No. 159,735; June 13.
Battery chargers and electrical rectifiers. Westinghouse Union Battery Co. No. 161,664; June 13.
Beverage and extracts, flavors, and colors for making the same, Nonalcoholic. Southern California Supply Company. No. 160,086; June 13.
Beverage, Nonalcoholic. Choc-Lo Co. No. 160,182; June 13.
Beverage sold as a soft drink and sirups for making same. Queen City Bottling Co. No. 162,052; June 13.
Beverages and sirups for making the same, Nonalcoholic. Cherry Blossom Mfg. Co. Nos. 159,935–7; June 13.
Beverages and sirups for making the same, Nonalcoholic. Cherry Blossom Mfg. Co. No. 159,939; June 13.
Beverages and sirups for making the same, Nonalcoholic. Cherry Blossom Mfg. Co. Nos. 159,947–8; June 13.
Beverages and sirups for making the same, Nonalcoholic. Cherry Blossom Mfg. Co. Nos. 159,952–3; June 13.
Beverages sold as soft drinks and sirups for making same and sirup. N. L. Hall. No. 161,921; June 13.
Blood purifiers, tonics, and conditioners for horses, cows, etc. Day, Son & Hewitt, Limited. No. 154,353; June 13.
Blotters, pencils, and memorandum pads. Brown & Bigelow. No. 160,742; June 13.
Books, Blank account. F. A. Koenig. No. 160,611; June 13.
Books, Combined check and account. W. J. Palmer. No. 159,614; June 13.
Books, Printed. Matthew Bender & Company. No. 150,887; June 13.
Boots and shoes. Wilson Process, Inc. No. 149,787; June 13.
Boots and shoes, Leather. Wm. Filene's Sons Company. No. 159,018; June 13.
Boots and shoes, Leather. Knipe Bros., Inc. No. 158,620; June 13.
Bread or rolls. Royal Baking Company. No. 145,649; June 13.
Bronzes and imitation bronze, Imitation art. Ovington Bros. Company. No. 142,408; June 13.
Brushes and brooms, whisk brooms, toothbrushes, hairbrushes, etc., Floor. James McCreery & Company. No. 158,242; June 13.
Brushes, Artists'. M. Grumbacher. Nos. 161,080–4; June 13.
Brushes, Artists'. M. Grumbacher. Nos. 161,087–8; June 13.
Brushes, Artists'. M. Grumbacher. Nos. 161,091–4; June 13.
Buffing and polishing compositions. Matchless Metal Polish Co. No. 159,169; June 13.
Building materials. Arthur Müller Bauten und Industriewerke. No. 142,316; June 13.
Building materials. Arthur Müller Bauten und Industriewerke. No. 145,350; June 13.
Butter. Capital City Products Company. No. 154,918; June 13.
Butter. Kielsmeier Company. No. 142,979; June 13.
Candies. A. R. Walker Candy Corporation. No. 155,246; June 13.
Candies. A. G. Williams Homemade Candy Co. No. 154,250; June 13.
Candy. T. C. Jungels. No. 156,493; June 13.
Candy. New England Confectionery Company. No. 143,885; June 13.
Candy. Schwarz & Son. No. 158,492; June 13.
Canned foods of smoked or salted fish or herring. A/S United Sardine Factories. No. 150,121; June 13.
Canned fruits and vegetables. G. Di Salvo & A. Patera. No. 142,474; June 13.
Canned peaches. California Packing Corporation. No. 155,045; June 13.
Chains and tire-grip chains. United States Chain & Forging Co. No. 155,840; June 13.
Chairs, Household, office and factory. Nichols & Stone Company. No. 161,504; June 13.
Chemical preparation. National Marking Machine Company. No. 158,946; June 13.
Chicory. Arlatte & Cie. No. 157,791; June 13.
Chocolate, cocoa, chocolate-cream peppermints, candied peanut crisp, etc. Brewster Sons Company. No. 151,860; June 13.
Cigars. Great Lakes Cigar Mfg. Co. No. 160,010; June 13.
Cigars. J. N. McCrary. No. 145,638; June 13.
Cigars, Manufactured. H. Morrier. No. 146,516; June 13.
Clothing. Franklin Simon & Co. No. 151,642; June 13.
Clothing, Women's, misses', children's, and infants'. Little Duchess Dress Co. No. 141,228; June 15.
Coal, Composition for the treatment of fuel. W. A. Robeson. No. 158,491; June 13.
Corn meal. Blakely Milling Co. No. 149,122; June 13.
Cornstarch, flavoring extracts, gelatine dessert, and tapioca. Wabash Baking Powder Company. No. 155,202; June 13.
Corsets. F. P. Hoy, Incorporated. No. 141,068; June 13.
Cosmetics. Lehn and Fink, Inc. No. 157,228; June 13.
Cotton and cotton mixed wash dress piece goods. Walton N. Moore Dry Goods Co. No. 143,874; June 13.
Cotton fabrics in pieces, permanent organdie, cotton fabrics in pieces, Mercerized. Heberlein & Co., A. G.. No. 142,213; June 13.
Davenports. Royal Easy Chair Corporation. No. 159,619; June 13.
Dental cream, paste, powder, and liquid cleaner, cream. Crown Supply Company. No. 146,867; June 13.
Dental plaster work, Separating solution for. C. A. MacDermid. No. 159,762; June 13.
Display fixtures and parts thereof, Show-window. Herbert Ryder Co. No. 141,025; June 13.
Dolls. Averill Mfg. Corp. No. 158,667; June 13.
Dolls. Rees Davis Toy Company. No. 162,768; June 13.
Dolls and doll dresses, Cloth. F. W. Lanning. No. 163,405; June 13.
Dresses, Misses' and women's. Marcelle Corporation. No. 156,459; June 13.
Dresses, Women's house and street. Hannaford Company. No. 154,450; June 13.
Drying apparatus for manufacturing and industrial operations, Air-current. Andrews & Goodrich, Inc. No. 155,655; June 13.
Electric generator apparatus, Self-contained. Columbian Bronze Corporation. No. 160,872; June 13.
Electric-lighting fixtures. St. Louis Brass Mfg. Co. No. 162,321; June 13.
Electrical plugs, attachment plugs, caps, etc. Magnus Electric Co. No. 161,784; June 13.
Electrical switches. Monitor Controller Company. No. 161,010; June 13.
Engines, Timers for internal-combustion. U & J Carburetor Company. No. 134,616; June 13.
Eyeglasses, spectacles, and ophthalmic lenses. American Optical Company. No. 135,392; June 13.
Firearms. Orbea Hermanos. No. 147,826; June 13.
Fireproofing compounds. Pyro-Non Paint Co. No. 139,048; June 13.
Flavoring material for making a nonalcoholic fruit beverage and the beverage made therefrom. W. K. Earle. No. 159,857; June 13.
Flavoring oils, extracts, and compounds, preserved fruits, fruit compounds, food sirups, etc. Eng-Skell Company. Nos. 142,966–7; June 13.
Flour, Wheat. Oklahoma City Mill & Elevator Co. No. 153,109; June 13.
Flour, Wheat. Texas Star Flour Mills. No. 154,891; June 13.
Fly swatters. Lubbers & Bell Mfg. Co. Nos. 162,688–9; June 13.
Fly swatters. Lubbers & Bell Mfg. Co. No. 163,312; June 13.
Food, Poultry. M. W. Sleight. No. 153,413; June 13.
Frocks, dresses, suits, furs, underwear, etc. Worth, Inc. No. 161,466; June 13.
Game, Apparatus for playing a. Belasco Mechanics Corporation. No. 161,027; June 13.
Game, Parlor table. Rouzette Company. No. 162,348; June 13.
Games, Racing. Robson & Bowen. No. 163,115; June 13.
Gas burners. P. S. Harper. No. 161,995; June 13.
Gates. Monmouth Gate & Manufacturing Company. No. 159,808; June 13.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Gloves. Improved Reversible Glove Co. No. 154,877; June 13.
Grape juice. J. Hungerford Smith Grape Juice Co. No. 162,772; June 13.
Gum, Chewing. Short & Son Co. No. 132,762; June 13.
Hair grower and a preparation for the skin. R. B. Strange. No. 156,659; June 13.
Hair grower, tonic, and gloss. J. Johnson. No. 157,616; June 13.
Heater cords. Driver-Harris Company. No. 160,998; June 13.
History of the United States, Series of volumes of epochal. Yale University Press. No. 158,694; June 13.
Hose, Silk. Largman, Gray Company. No. 153,984; June 13.
Hosiery. Calton Manufacturing Company. No. 151,079; June 13.
Hosiery, Infants'. W. T. Grant Company. No. 157,484; June 13.
Hosiery, men's and women's sweaters, and underwear. A. Arons. No. 155,949; June 13.
Ice cream. S. Butero. No. 157,912; June 13.
Ice-cream powder. Crandall Pettee Co. No. 136,185; June 13.
Irons, Electric. Strause Gas Iron Co. No. 162,518; June 13.
Jar rings, Fruit-. Schloss Manufacturing Company. Nos. 159,727–32; June 13.
Khaki in the piece. Delano, Bartlett and Dexter, Inc. No. 155,397; June 13.
Knitwear, fancy knit goods, sweaters, etc. James Lees and Sons Company. No. 148,336; June 13.
Lacings, galloons, tapes, etc., Shoe, underwear, and blouse. Walker Webbing Co. No. 155,943; June 13.
Lacings, galloons, tapes, etc., Shoe, underwear, and blouse. Walker Webbing Co. No. 156,040; June 13.
Lacings, galloons, tapes, etc., Shoe, underwear, and blouse. Walker Webbing Co. No. 156,426; June 13.
Lamp shades, Glass. M. H. Krich. No. 159,321; June 13.
Lamps, Portable electric. Waterbury Metal Wares Co. No. 162,364; June 13.
Laxative. Fruit Cake Mfg. Co. No. 158,386; June 13.
Lighting fixtures. Central Electric Company. No. 160,749; June 13.
Linen and cotton goods. M. Crosbie. No. 152,699; June 13.
Magazine published quarterly. Catholic Students' Mission Crusade. No. 158,224; June 13.
Mailing wrappers. International Mailing Tube & Wrapper Co. No. 160,012; June 13.
Malt. G. & H. Products Co. No. 153,760; June 13.
Malt extract for food purposes. Primalt Products Co. No. 153,012; June 13.
Malt extract sirup for food purposes. Schreiber Products Corporation. No. 146,503; June 13.
Malt extract sirup for food purposes. Scheiber Products Corporation. Nos. 146,505–6; June 13.
Malt extract sirup for food purposes. Schreiber Products Corporation. No. 146,736; June 13.
Malt extract sirup for food purposes. Schreiber Products Corporation. No. 147,744; June 13.
Malt extracts. Du Bois Malt Distributing House. No. 148,582; June 13.
Malt sirup used as a food product. L. C. Robinson. No. 138,405; June 13.
Marmalade. J. & J. V. Hoegen & Company. No. 156,628; June 13.
Mattresses. Stearns & Foster Company. No. 160,097; June 13.
Medicinal ointment for congestion of the nose, throat, and chest. Bell Chemical Co. No. 142,552; June 13.
Medicine for skin troubles. H. Uhry. No. 157,085; June 13.
Milk, Evaporated. Borden Company. No. 151,698; June 13.
Newspaper column, Title of a. New York Tribune, Inc. No. 160,202; June 13.
Newspaper section. Star Company. No. 158,730; June 13.
Oil, Olive. Duran y Cia. No. 155,339; June 13.
Oil, Olive. Fed. Garret and Co. Nos. 130,587–8; June 13.
Ointment for pimples, ringworm, tetter, eruptions, blackheads, etc. Mrs. O. Jensen. No. 158,043; June 13.
Paper, envelopes, tablets, and blank books. J. C. Blair Company. No. 160,333; June 13.
Paper-fastening machines, Automatic. Alex H. Irvin Company. No. 144,972; June 13.
Paper, Glassine. Warren Manufacturing Company. No. 159,673; June 13.
Paper, Surface and metal coated, roll-printed, and embossed. Walther & Company. No. 160,909; June 13.
Paper, Tracing. G. Vincent. No. 155,282; June 13.
Paper, writing pads, notebooks, erasers, etc., Legal and letter. J. Meyers Stationery & Printing Co. No. 160,769; June 13.
Paving materials of asphalt. United States Asphalt Refining Company. No. 157,542; June 13.
Peanuts, peanut candies, and peanut butter, Salted. Lummis & Co. No. 156,230; June 13.
Pencils. F. W. Palomba. No. 157,688; June 13.
Periodical, Monthly. Wollensak Optical Company. No. 144,595; June 13.
Periodical published monthly. International Telephone and Telegraph Corporation. No. 159,316; June 13.
Periodicals issued bimonthly. Westinghouse Union Battery Co. No. 158,027; June 13.
Pharmaceutical preparation for biliousness, etc. F. A. Waldkoenig. No. 155,132; June 13.
Phonograph cabinets. F. X. Stahl. No. 160,508; June 13.
Photographic-printing machines and parts and sensitized photographic paper. Bromograph A.-G. Mannheim. No. 144,010; June 13.
Pipes, Tobacco smoking. Hirschl & Bendheim. Nos. 159,312–13; June 13.
Pop corn, Candied. Pacific Coast Biscuit Company. No. 155,517; June 13.
Potato chips. C. Shasteen. No. 154,706; June 13.
Potatoes. O. K. Story & Company. No. 155,779; June 13.
Powder, Tooth. Prophylactic Tooth Powder, Inc. No. 153,365; June 13.
Preparation for cleaning and softening the skin. Dermatological laboratories. No. 157,989; June 13.
Printing presses, Electric heaters for. R. Nitch. No. 160,622; June 13.
Radio receiving apparatus. Morse Manufacturing Company. No. 162,025; June 13.
Radio signaling. Jewett Manufacturing Corporation. No. 159,708; June 13.
Radio telephone and telegraph transmitters and receivers, etc. Westinghouse Electric & Manufacturing Company. No. 162,277; June 13.
Ranges, plates, heaters, and stoves, Gas. Geo. D. Roper Corporation. No. 155,275; June 13.
Razors. A. Wingen, Jr. No. 155,536; June 13.
Refrigerators. H. N. Lathrop. No. 148,844; June 13.
Remedy for indigestion. A. Marotta. No. 159,809; June 13.
Rouge, Face. Daniels and Fisher Stores Company. No. 157,359½; June 13.
Rubber heels. Fitz Chemical Company. No. 139,520; June 13.
Sardines. Bordeaux & New York Trading Co. No. 157,881; June 13.
Scissors and shears. Acme Shear Company. No. 156,617; June 13.
Sewing machines and attachments. New Home Sewing Machine Company. No. 139,084; June 13.
Shirt waists, suits, skirts, dresses, etc., Ladies' and misses' silk. J. A. Migel Inc. No. 151,586; June 13.
Shirts and boys' outer shirts and blouses, Men's. Bob & Baskind. No. 152,535; June 13.
Shirts, Dress and negligee. M. Shaw. No. 155,523; June 13.
Shirts, Negligee. Jackson & Gutman Company. No. 149,901; June 13.
Shirts, Work. American Wholesale Corporation (Baltimore Bargain House). No. 155,294; June 13.
Shoes. Walter H. More Co. No. 159,040; June 13.
Shoes. G. E. Peirce. No. 159,053; June 13.
Shoes, Children's. F. Levy Shoe Co. No. 158,318; June 13.
Shoes, Leather. Lunn & Sweet Company. No. 158,627; June 13.
Shoes, Leather. Nettleton Shops, Inc. No. 159,664; June 13.
Shoes, Men's leather. W. E. Tuttle Company. No. 152,524; June 13.
Shoes, Tennis. I. Goldberg and Sons. No. 153,599; June 13.
Shoes, Women's leather. Craddock Terry Company. No. 158,223; June 13.
Shoes, Wooden heel fasteners for. Hercules Wood Heel Fastener Co. No. 150,359; June 13.
Silk, Thrown. S. A. Wenger & Co. No. 162,151; June 13.
Sleds, Hand. Kalamazoo Sled Company. No. 162,823; June 13.
Soaps. Steinfels Frères. Nos. 158,063–6; June 13.
Spark-plug extension. H. and A. Accessories. No. 162,176; June 13.
Stockings. Julius Kayser & Co. No. 154,563; June 13.
Suits and overcoats, Men's and boys'. Saks and Company. No. 155,460; June 13.
Suits, Men's. Chas. Kaufman & Bros. No. 152,208; June 13.
Tablets used as a blood purifier and general blood tonic. Radium Research Laboratories. No. 157,901; June 13.
Telephone and radio receiving sets. Magnavox Company. Nos. 161,499–502; June 13.
Threads, Sewing. Max Pollack & Co. No. 153,992; June 13.
Tire valves, Dust cap for. Sabel & Balch. No. 155,370; June 13.
Tires and inner tubes, India-rubber. George Spencer, Moulton & Co. Ltd. No. 155,237; June 13.
Tires and inner tubes, Pneumatic automobile. Dryden Rubber Company. No. 155,871; June 13.
Tires and tubes of rubber, Automobile. Blekre Tire & Rubber Company. No. 161,524; June 13.
Tires and tubes, Pneumatic rubber. Shapleigh Hardware Company. No. 155,462; June 13.
Tires, Automobile rubber. New Tread Tire Company. No. 133,061; June 13.
Tires, India rubber. India Rubber, Gutta Percha & Telegraph Works Company Limited. No. 161,437; June 13.
Tires, Rubber. C. J. Dalton. No. 158,384; June 13.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Tobacco, Smoking. John Sinclair Ltd. No. 162,142; June 13.

Tonic, liniment, grip tablet. General system. H. Crooks. No. 156,187; June 13.

Toothbrushes. Florence Manufacturing Company. No. 159,460; June 13.

Toy wagons. Allied Factories Corporation. No. 160,989; June 13.

Underwear, Ladies' muslin and silk. Victoria Undergarment Co. No. 151,896; June 13.

Underwear of textile fabric, Women's. D. J. Healy. No. 154,972; June 13.

Union suits, combination suits, undershirts, and underdrawers, Men's, women's, and children's. Superior Underwear Company. No. 157,240; June 13.

Vacuum cleaners, Electric. Birtman Electric Company. No. 161,405; June 13.

Violins, violin bows, chin rests, cases, pegs, strings, etc. C. Bruno & Son, Inc. No. 156,675; June 13.

Wardrobes and bedsteads, Bed. I. L. Hadley. No. 161,118; June 13.

Waterproofed fabrics. E. I. du Pont de Nemours & Company. No. 162,385; June 13.

Wicks, Woven. National Enameling & Stamping Co. No. 159,170; June 13.

Wireless-telephone receiving sets and parts thereof. Essex Specialty Co. No. 160,999; June 13.

Wool and artificial silk piece goods. Turner & Walls. No. 159,437; June 13.

Wreaths and floral decorations, Artificial. L. D. Singer. No. 161,655; June 13.

Yarns, Silk, wool, cotton, silk and wool, linen, and worsted. G. S. Rich. No. 163,539; June 13.

CLASSIFICATION OF PATENTS

ISSUED JUNE 13, 1922.

NOTE.—First number=class, second number=subclass, third number=patent number.

2— 79: 1,419,332
82: 1,419,137
106: 1,419,771
108: 1,419,517
143: 1,419,127
153: 1,419,735
4— 5: 1,419,426
20: 1,419,339
1,419,587
28: 1,419,328
30: 1,419,498
5— 5: 1,419,765
8: 1,419,574
12: 1,419,624
16: 1,419,319
18: 1,419,586
41: 1,419,245
55: 1,419,297
63: 1,419,727
72: 1,419,820
8— 5: 1,419,497
21: 1,419,754
9— 2: 1,419,464
20: 1,419,272
10— 10: 1,419,588
12— 4: 1,419,204
10: 1,419,202
97: 1,419,213
104: 1,419,496
145: 1,419,201
1,419,203
15— 100: 1,419,271
103: 1,419,356
104.01: 1,419,790
104.14: 1,419,886
120: 1,419,543
133: 1,419,504
184: 1,419,887
229: 1,419,234
250: 1,419,601
16— 128: 1,419,791
146: 1,419,804
181: 1,419,479
17— 6: 1,419,529
24: 1,419,418
1,419,552
18— 2: 1,419,752
9: 1,419,147
38: 1,419,577
45: 1,419,248
53: 1,419,879
54: 1,419,714
20— 1.01: 1,419,491
55: 1,419,384
92: 1,419,608
22— 32: 1,419,566
95: 1,419,454
200: 1,419,280
23— 22: 1,419,403
24: 1,419,720
29: 1,419,746
1,419,882
24— 3: 1,419,408
17: 1,419,592
19: 1,419,897
23: 1,419,392
36: 1,419,326
49: 1,419,683
58: 1,419,518
68: 1,419,565
80: 1,419,696
87: 1,419,165
101: 1,419,298
117: 1,419,199
126: 1,419,741
146: 1,419,410
25— 36: 1,419,699
42: 1,419,198
28— 58: 1,419,734
29— 4.5: 1,419,472
1,419,473
37: 1,419,611
47: 1,419,812
84: 1,419,519
1,419,520
1,419,521
111: 1,419,844

29— 111: 1,419,845
164: 1,419,348
167: 1,419,346
181: 1,419,395
30— 12: 1,419,187
33— 2: 1,419,374
12: 1,419,634
23: 1,419,851
46: 1,419,335
80: 1,419,354
143: 1,419,567
149: 1,419,645
167: 1,419,837
172: 1,419,306
223: 1,419,836
34— 6: 1,419,131
26: 1,419,707
1,419,712
48: 1,419,534
35— 5: 1,419,604
12: 1,419,882
36— 1: 1,419,676
40: 1,419,637
41: 1,419,444
37— 23: 1,419,382
1,419,524
24: 1,419,480
1,419,866
33: 1,419,642
63: 1,419,263
39— 7: 1,419,424
40— 15: 1,419,401
16: 1,419,301
113: 1,419,779
131: 1,419,745
145: 1,419,883
149: 1,419,638
42— 54: 1,419,742
57: 1,419,646
43— 39: 1,419,540
1,419,903
69: 1,419,299
118: 1,419,859
124: 1,419,655
144: 1,419,900
45— 4: 1,419,485
5: 1,419,481
16: 1,419,278
24: 1,419,193
28: 1,419,545
52: 1,419,293
58: 1,419,668
94: 1,419,594
46— 4: 1,419,636
1,419,795
14: 1,419,402
1,419,690
27: 1,419,578
1,419,775
32: 1,419,651
37: 1,419,657
40: 1,419,136
1,419,632
1,419,694
46: 1,419,902
59: 1,419,554
70: 1,419,191
1,419,848
47— 25: 1,419,484
48— 85.2: 1,419,342
180: 1,419,216
1,419,710
49— 52: 1,419,310
51— 8: 1,419,717
14: 1,419,130
29: 1,419,628
129: 1,419,740
237: 1,419,535
131: 1,419,140
52— 24: 1,419,295
53— 3: 1,419,515
6: 1,419,756
1,419,860
54— 38: 1,419,450
55— 56: 1,419,800
57: 1,419,743
73: 1,419,585

55— 118: 1,419,158
56— 52: 1,419,262
119: 1,419,347
129: R. 15,384
324: 1,419,609
386: 1,419,255
475: 1,419,542
59— 19: 1,419,476
60— 37: 1,419,267
61— 30: 1,419,852
62— 116: 1,419,215
63— 21: 1,419,370
64— 10: 1,419,858
24: 1,419,706
25: 1,419,782
26: 1,419,892
31: 1,419,821
52: 1,419,156
55: 1,419,506
67— 115: 1,419,334
1,419,884
68— 37: 1,419,427
70— 5: 1,419,864
14: 1,419,516
17: R. 15,380
1,419,469
46: 1,419,393
105: 1,419,358
108: 1,419,359
115: 1,419,526
126: 1,419,861
72— 6: 1,419,142
37: 1,419,805
41: 1,419,623
1,419,713
84: 1,419,536
110: 1,419,274
117: 1,419,709
121: 1,419,232
73— 51: 1,419,134
1,419,260
1,419,685
54: 1,419,387
1,419,388
167: 1,419,798
1,419,876
74— 14: 1,419,368
1,419,681
26: 1,419,174
1,419,383
32: 1,419,891
33: 1,419,793
39: 1,419,467
1,419,602
40: 1,419,906
50: 1,419,247
54: 1,419,461
56: 1,419,351
58: 1,419,243
59: 1,419,770
83: 1,419,597
84: 1,419,457
99: 1,419,240
105: 1,419,344
108: 1,419,736
109: 1,419,150
1,419,413
1,419,672
1,419,715
1,419,781
1,419,813
1,419,857
75— 17: 1,419,764
50: 1,419,801
77— 58: 1,419,448
79— 10: 1,419,489
80— 18: 1,419,599
1,419,817
81— 3: 1,419,210
21: 1,419,132
60: 1,419,391
112: 1,419,222
119: 1,419,659
140: 1,419,870
165: 1,419,404
176: 1,419,525
82— 19: 1,419,432

82— 19: 1,419,875
39: 1,419,786
42: 1,419,452
83— 26: 1,419,244
52: 1,419,407
54: 1,419,437
73: 1,419,451
82: 1,419,405
88: 1,419,830
89: 1,419,429
84— 53: 1,419,349
270: 1,419,818
275: 1,419,440
338: 1,419,703
350: 1,419,486
85— 41: 1,419,652
87— 5: 1,419,625
12: 1,419,760
88— 4: 1,419,725
17: 1,419,206
1,419,759
23: 1,419,385
24: 1,419,281
1,419,901
44: 1,419,369
90— 18: 1,419,853
91— 43: 1,419,169
48: 1,419,466
92— 7: 1,419,763
26: 1,419,847
93— 6: R. 15,385
36: 1,419,355
54: 1,419,641
55: 1,419,576
94— 44: 1,419,537
95— 32: 1,419,323
72: 1,419,406
97— 13: 1,419,687
25: 1,419,722
49: 1,419,477
99— 2: 1,419,397
100— 44: 1,419,700
101— 126: 1,419,662
1,419,663
292: 1,419,345
350: 1,419,189
414: 1,419,148
1,419,149
1,419,175
102— 28: 1,419,361
103— 8: 1,419,478
61: 1,419,436
65: 1,419,495
80: 1,419,151
90: 1,419,331
92: 1,419,316
94: 1,419,692
104— 87: 1,419,684
105— 243: 1,419,769
260: 1,419,666
106— 34: 1,419,605
107— 7: 1,419,805
26: 1,419,276
58: 1,419,622
108— 1: 1,419,126
26: 1,419,287
110— 44: 1,419,183
173: 1,419,807
112— 95: 1,419,317
159: 1,419,462
233: 1,419,185
261: 1,419 718
113— 1: 1,419,619
11: 1,419,573
60: 1,419,211
113: 1,419,583
116: 1,419,705
114— 221: 1,419,302
116— 36: 1,419,854
43: 1,419,305
52: 1,419,777
65: 1,419,435
86: 1,419,738
125: 1,419,612
144: 1,419,313
117— 59: 1,419,560
118— 18: 1,419,192

119— 5: 1,419,549
47: 1,419,340
54: 1,419,468
120— 45: 1,419,439
103: 1,419,257
110: 1,419,441
121— 21: 1,419,269
117: 1,419,159
122: 1,419,654
193: 1,419,362
1,419,474
122— 400: 1,419,701
123— 25: 1,419,239
32: 1,419,231
1,419,702
54: 1,419,688
63: 1,419,693
75: 1,419,512
149: 1,419,711
169: 1,419,197
1,419,904
177: R. 15,382
187.5: 1,419,840
124— 1: 1,419,538
1,419,539
1,419,682
8: 1,419,445
11: 1,419,308
125— 37: 1,419,785
126— 5: 1,419,367
20: 1,419,670
39: 1,419,792
58: 1,419,600
113: 1,419,582
132: 1,419,810
272: 1,419,139
283: 1,419,259
288: 1,419,438
304: 1,419,835
317: 1,419,548
127— 9: 1,419,664
18: 1,419,824
129— 16: 1,419,194
1,419,655
16.5: 1,419,394
130— 5: 1,419,895
131— 5: 1,419,224
51: 1,419,141
132— 20: 1,419,753
23: 1,419,579
58: 1,419,325
133— 3: 1,419,878
134— 14: 1,419,750
26: 1,419,379
72: 1,419,655
79: 1,419,258
137— 103: 1,419,784
144: 1,419,640
138— 8: 1,419,761
139— 47: 1,419,364
48: 1,419,776
54: 1,419,731
63: 1,419,527
144— 62: 1,419,732
145— 17: 1,419,400
34: 1,419,819
36: 1,419,615
146— 11: 1,419,499
14: 1,419,399
149— 14: 1,419,522
150— 1.5: 1,419,425
151— 35: 1,419,564
54: R. 15,379
152— 6: 1,419,343
8: 1,419,442
1,419,443
10: 1,419,329
12: 1,419,471
1,419,678
1,419,679
13: 1,419,470
14: R. 15,386
R. 15,387
1,419,503
1,419,680
1,419,751
16: 1,419,885

152— 21: 1,419,170
1,419,889
22: 1,419,768
24: 1,419,453
38: 1,419,811
47: 1,419,242
153— 11: 1,419,550
46: 1,419,755
154— 4: 1,419,842
45: 1,419,171
155— 23: 1,419,890
43: 1,419,465
58: 1,419,660
1,419,806
180: 1,419,276
181: 1,419,492
196: 1,419,647
156— 19: 1,419,207
25: 1,419,389
157— 1: 1,419,758
158— 5: 1,419,223
27.4: 1,419,168
36: 1,419,553
46.5: 1,419,145
1,419,373
57: 1,419,380
91: 1,419,570
164— 27: 1,419,789
36: 1,419,144
49: 1,419,907
112: 1,419,146
167— 2: 1,419,618
168— 25: 1,419,251
170— 159: 1,419,180
162: 1,419,841
163: 1,419,877
173: 1,419,568
171— 119: 1,419,421
1,419,458
222: 1,419,233
225: 1,419,778
229: 1,419,493
312: 1,419,422
313: 1,419,494
321: 1,419,803
172— 8: 1,419,874
179: 1,419,723
278: 1,419,749
282: 1,419,376
288: 1,419,178
173— 28: 1,419,644
324: 1,419,523
1,419,571
175— 294: 1,419,872
337: 1,419,559
176— 1: 1,419,360
4: 1,419,153
27: 1,419,816
177— 311: 1,419,833
330: 1,419,661
337: 1,419,708
350: 1,419,256
352: 1,419,377
1,419,561
178— 17: 1,419,677
17.5: 1,419,409
103: 1,419,460
179— 39: 1,419,403
49: 1,419,569
138: 1,419,596
171: 1,419,562
1,419,797
175: 1,419,673
1,419,674
178: 1,419,551
187: 1,419,513
188: 1,419,606
180— 4: 1,419,483
14: 1,419,433
19: 1,419,605
24: 1,419,236
77: 1,419,234
82: 1,419,227
83: 1,419,366
90: 1,419,691
181— 27: 1,419,514
32: 1,419,459

184— 38: 1,419,282
91: 1,419,229
185— 40: 1,419,832
186— 8: 1,419,200
187— 29: 1,419,783
188— 2: 1,419,371
99: 1,419,430
174: 1,419,154
250: 1,419,773
189— 1.5: 1,419,868
26: 1,419,252
27: 1,419,827
29: 1,419,633
36: 1,419,446
46: 1,419,236
191— 60.2: 1,419,365
192— 4: 1,419,181
68: 1,419,849
116: 1,419,155
1,419,164
194— 9: 1,419,581
196— 25: 1,419,378
1,419,610
197— 71: 1,419,182
87: 1,419,138
114: 1,419,195
1,419,196
126: 1,419,648
1,419,649
127: 1,419,698
134: 1,419,617
176: 1,419,172
198— 31: 1,419,324
117: 1,419,381
200— 19: 1,419,767
60: 1,419,728
1,419,729
80: 1,419,626
84: 1,419,352
102: 1,419,898
119: 1,419,724
128: 1,419,226
202— 8: 1,419,908
203— 5: 1,419,850
1,419,894
203— 6: 1,419,135
204— 8: 1,419,839
29: 1,419,208
1,419,396
1,419,511
206— 15.1: 1,419,593
41: 1,419,375
46: 1,419,658
57: 1,419,212
208— 24: 1,419,294
38: 1,419,312
42: 1,419,341
210— 196: 1,419,286
211— 8: 1,419,219
1,419,220
9: 1,419,338
11: 1,419,209
14: 1,419,163
1,419,250
16: 1,419,487
18: 1,419,846
25: 1,419,616
33: 1,419,353
37: 1,419,620
1,419,621
212— 14: 1,419,129
213— 42: 1,419,508
45: 1,419,757
64: 1,419,669
67: 1,419,265
1,419,398
214— 16: 1,419,556
85: 1,419,675
115: 1,419,167
215— 1: 1,419,509
31: 1,419,747
38: 1,419,829
47: 1,419,580
55: 1,419,823
216— 54: 1,419,546
217— 12: 1,419,794
29: 1,419,905
44: 1,419,304
219— 14: 1,419,744
19: 1,419,309
219— 19: 1,419,330
25: 1,419,173
39: 1,419,225
46: 1,419,613
220— 29: 1,419,883
60: 1,419,314
221— 23: 1,419,237
74: 1,419,572
1,419,880
95: 1,419,284
114: 1,419,386
141: 1,419,296
223— 17: 1,419,133
224— 29: R. 15,383
1,419,166
1,419,456
1,419,531
1,419,796
226— 80: 1,419,590
111: 1,419,697
119: 1,419,235
228— 47: 1,419,563
54: 1,419,834
63: 1,419,748
229— 1.5: R. 15,381
9: 1,419,671
31: 1,419,315
53: 1,419,739
72: 1,419,888
230— 6: 1,419,221
33: 1,419,719
232— 33: 1,419,179
233— 19: 1,419,285
235— 46: 1,419,667
61: 1,419,283
90: 1,419,871
103: 1,419,253
238— 38: 1,419,814
60: 1,419,643
190: 1,419,726
294: 1,419,865
330: 1,419,333
240— 2: 1,419,152
1,419,822
1,419,899
240— 7: 1,419,327
1,419,431
41: 1,419,449
1,419,482
61: 1,419,603
81: 1,419,598
91: 1,419,307
241— 19: 1,419,802
242— 55: 1,419,826
68: 1,419,635
100: 1,419,589
244— 1: 1,419,261
1,419,311
2: 1,419,419
3: 1,419,176
1,419,205
15: 1,419,363
21: 1,419,507
29: 1,419,416
1,419,447
31: 1,419,177
1,419,277
1,419,828
246— 34: 1,419,869
61: 1,419,289
293: 1,419,856
305: 1,419,357
247— 8: 1,419,584
248— 30: 1,419,575
42: 1,419,721
64: 1,419,420
65: 1,419,488
249— 14: 1,419,557
55: 1,419,627
250— 27: 1,419,528
1,419,530
1,419,547
34: 1,419,241
251— 27: 1,419,290
48: 1,419,650
73: 1,419,455
106: 1,419,254
253— 136: 1,419,772
194: 1,419,273
254— 23: 1,419,412
254— 103: 1,419,544
157: 1,419,532
185: 1,419,855
255— 4: 1,419,415
35: 1,419,541
257— 231: 1,419,337
259— 73: 1,419,300
109: 1,419,737
260— 29: 1,419,502
86: 1,419,500
94: 1,419,501
125: 1,419,157
137: 1,419,695
168: 1,419,186
261— 113: 1,419,867
265— 19: 1,419,428
61: 1,419,766
71: 1,419,336
267— 17: 1,419,629
1,419,630
1,419,631
20: 1,419,320
26: 1,419,268
27: 1,419,614
53: 1,419,788
268— 4: 1,419,893
270— 76: 1,419,188
271— 39: 1,419,733
48: 1,419,595
274— 15: 1,419,214
25: 1,419,238
29: 1,419,505
35: 1,419,774
278— 15: 1,419,881
280— 5: 1,419,896
11: 1,419,558
34: 1,419,160
57: 1,419,184
84: 1,419,303
92: 1,419,434
96.2: 1,419,838
125: 1,419,689
141: 1,419,291
281— 30: 1,419,411
44: 1,419,190
282— 28: 1,419,217
283— 1: 1,419,831
18: 1,419,161
48: 1,419,815
66: 1,419,275
1,419,809
290— 31: 1,419,607
46: 1,419,825
292— 61: 1,419,639
173: 1,419,230
238: 1,419,128
293— 55: 1,419,228
1,419,279
1,419,318
1,419,417
294— 33: 1,419,591
43: 1,419,423
114: 1,419,780
295— 6: 1,419,372
42: 1,419,218
1,419,716
296— 26: 1,419,475
44: 1,419,490
1,419,799
84: 1,419,288
1,419,414
97: 1,419,321
1,419,322
98: 1,419,704
297— 12: 1,419,246
299— 13: 1,419,292
31: 1,419,686
49: 1,419,843
301— 40: 1,419,533
44: 1,419,350
63: 1,419,762
74: 1,419,162
302— 14: 1,419,143
37: 1,419,730
303— 6: 1,419,873
305— 5: 1,419,555
9: 1,419,390
10: 1,419,510
306— 32: 1,419,249
42: 1,419,787

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 20TH DAY OF JUNE, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

A/S de Norske Saltverker. (See Isaachsen, Isak, assignor.)
Abbott Incorporated. (See Abbott, William E., assignor.)
Abbott, Incorporated. (See Horstkotte, G. A., assignor.)
Abbott, William E., assignor to Abbott Incorporated, Bend, Oreg. Radiator funnel. No. 1,420,011; June 20.
Acheson, Edward G., New York, N. Y. Paper product and making the same. No. 1,419,951; June 20.
Acheson, Edward G., New York, N. Y. Soap composition and making same. No. 1,419,952; June 20.
Adams, Leslie M., Seattle, Wash. Game apparatus. No. 1,420,230; June 20.
Adams, Thomas O. (See Wise, W. J., and Adams.)
Aktiebolaget Ljungström Angturbin. (See Ljungström, Fredrik, assignor.)
Aktiebolaget Vaporackumulator. (See Frenne, Nils G. H., assignor.)
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Rotary transforming apparatus. No. 1,420,398; June 20.
Aliquo, Francesco, Rome, Italy. Steering mechanism. No. 1,420,231; June 20.
All-Steel-Equip Company. (See Goblet, Peter, assignor.)
Allen, Bona, Jr., Buford, Ga. Nonslip belt. No. 1,420,604; June 20.
Alonso, Segundo P., Habana, Cuba. Angle-measuring apparatus. No. 1,420,175; June 20.
Althaus, Walter G., assignor of one-fourth to H. B. Richmond, Shawano, Wis. Automatic stop for sound-reproducing machines. No. 1,420,071; June 20.
American Cellone Company (Inc.). (See Eichengrün, Arthur, assignor.)
American Electrical Heater Company. (See Kuhn, F., and Hand, assignors.)
American Marine Equipment Corporation. (See Davis, Howard C.)
American Smelting and Refining Company. (See Thiele, Adolph A., assignor.)
American Stove Company. (See Nicolaus F. G., and Roy, assignors.)
American Telephone and Telegraph Company. (See Kent, Robert J., assignor.)
American Well Works, The. (See Chapman, Matthew T., assignor.)
Anderson, Edward S., Mabel, Minn. Road drag. No. 1,420,605; June 20.
Anderson, Fred J., Triumph, Minn. Tractor guide. No. 1,419,909; June 20.
Anderson, James B., Portland, Oreg. Aeroplane-braking device. No. 1,420,509; June 20.
Anderson, James B., Portland, Oreg. Hydroaeroplane. No. 1,420,606; June 20.
Anderson, John A., Boston, Mass. Timer. No. 1,420,012; June 20.
Anderson, Roy H., assignor of one-half to H. G. Hastings, Allentown, and A. H. Elliott, Philadelphia, Pa. Toe protector. No. 1,420,302; June 20.
Anderson, Samuel R., and L. F. Campbell, Hardin, Ill. Fabric dispensing and measuring machine. No. 1,420,607; June 20.
Andreau, Roland L., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Making acetyl isoborneol. No. 1,420,399; June 20.
Andrew, William, Cincinnati, Ohio. Apparatus for producing fluted columns of sheet metal. No. 1,420,608; June 20.
Angstrom, Carl J., assignor of one-half to S. Diescher & Sons, Pittsburgh, Pa. Opening sheet-metal packs. No. 1,420,359; June 20.
Antofilli, Giovanni, New York, N. Y. Burglar alarm. No. 1,420,510; June 20.
Arctic Rotary Pump Company. (See Joynt, J., and Bowser, assignors.)
Armour Fertilizer Works. (See MacDowell, C. H., and Meyers, assignors.)
Armour Fertilizer Works. (See MacDowell, C. H., Meyers, and Pattison, assignors.)
Armstrong, Octavia A., Hay Springs, Nebr. Table. No. 1,420,511; June 20.
Arnold, Christian J., Walker, Iowa. Wireless corn planter. No. 1,420,465; June 20.
Aronson, Louis V., Newark, N. J. Mechanical toy. No. 1,420,072; June 20.
Arrow Electric Company, The. (See Nero, Arvid H., assignor.)
Asbury, Dorsey F. (See Smith, G. L., and Asbury.)
Auto Safety Device Company. (See Mehlen, Otto F., assignor.)
Ayre, William W., Brooklyn, N. Y. Game. No. 1,420,400; June 20.
Babcock, Le Roy J., Denver, Colo. Automatic air-brake valve for automobile engines. No. 1,420,073; June 20.
Babendreer, Albert, Biloxi, Miss. Can-filling apparatus. No. 1,420,401; June 20.
Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Liquid fuel. No. 1,419,910; June 20.
Bacon, Raymond F., and H. S. Davis, Pittsburgh, Pa., assignors to Texas Gulf Sulphur Company, Bay City, Tex. Solidifying sulphur. No. 1,419,911; June 20.
Baer & Wilde Company. (See Baer, Lawrence E., assignor.)
Baer, Lawrence E., assignor to Baer & Wilde Company, Attleboro, Mass. Jewelry container. No. 1,420,232; June 20.
Baer, Richard, New York, N. Y. Container seal. No. 1,419,912; June 20.
Baily, Thaddeus F., Alliance, Ohio. Producing graphite. No. 1,420,512; June 20.
Baines, Charles W. (See Lavaud, Clark, and Baines.)
Bakken, Julia, Northwood, N. Dak. Pie-plate attachment. No. 1,420,466; June 20.
Baldwin, William H., and C. T. Plummer, Duluth, Minn. Drum. No. 1,420,233; June 20.
Ballin, Solomon, New York, N. Y. Child's garment. No. 1,420,176; June 20.
Barbeau, Malcolm L., and F. S. Weber, assignors to The S. Howes Co. Inc., Silver Creek, N. Y. Mechanical movement. No. 1,420,360; June 20.
Bartell, William L., deceased, Portland, Oreg., by Mrs. I. Cook, administratrix, Willamette, Oreg. Undercutter. No. 1,420,234; June 20.
Bartels, John H., St. Louis, Mo. Steam condenser. No. 1,420,402; June 20.
Bash, Charles, Brookline, Mass. Toilet-paper holder. No. 1,420,403; June 20.
Bassick Company, The. (See Diss, Albert B., assignor.)
Bearby, Charles. (See Hansen, William and H. C., and Bearby.)
Beard, James, Pasadena, Calif. Automatic water heater. No. 1,420,513; June 20.
Beardslee Chandelier Manufacturing Company. (See Dvorak, Anton, assignor.)
Bearens, Claude, New York, N. Y. Transmission gear. No. 1,420,514; June 20.
Beaver, David F., Columbus, Ohio. School desk. No. 1,420,404; June 20.
Becher, James A., Chicago, Ill. Screw-cutting machine. No. 1,420,013; June 20.
Beemer, Clarence A., Westfield, N. J. Curtain fastener. No. 1,420,177; June 20.
Behrens, Henry, Peshtigo, Wis. Engine stand and burning-in machine. No. 1,420,074; June 20.
Beler, Adolf, assignor to Troop Manufacturing Company, Pittsburgh, Pa. Gas burner. No. 1,420,405; June 20.
Bellows, Warren S., Worcester, Mass. Wrench. No. 1,420,467; June 20.
Bennett, Charles E., Atlanta, assignor to The Service Engineering Company, Marietta, Ga. Current interrupter. No. 1,420,515; June 20.
Bennett, Charles F., Chicago, Ill., assignor to Bennett Elastic Web Co. Protector. No. 1,420,361; June 30.
Bennett Elastic Web Co. (See Bennett, Charles F., assignor.)
Benoist, Frank O., assignor to A. R. Thomas, Phoenix, Ariz. Piston for internal-combustion engines. No. 1,420,014; June 20.
Berge, Joseph, Flint, Mich. Lamp support. No. 1,420,075; June 20.
Berlston, Elizabeth. (See Ross, Isidor B., assignor.)
Bernert, George, assignor to Bernert Manufacturing Company, Milwaukee, Wis. Pneumatic conveyer apparatus. No. 1,420,015; June 20.
Bernert Manufacturing Company. (See Bernert, George, assignor.)
Bethlehem Steel Company. (See Lachman, Maurice, assignor.)

Billingham, Milton C. J., Kalamazoo, Mich. Paper-stock-treating machine. No. 1,420,362; June 20.
Bingay, Robert V., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Welded structure and forming same. No. 1,420,016; June 20.
Binmore, Charles J., Montreal, Quebec, Canada. Cultivating implement. No. 1,419,953; June 20.
Bjorlin, Harold E., Duluth, Minn. Bread-slicing machine. No. 1,420,235; June 20.
Black, John M., Sr., Harrisburg, Pa. Blacksmith's tongs. No. 1,420,516; June 20.
Blackburn Aeroplane & Motor Company Limited, The. (See Thornton, Arthur C., assignor.)
Blake, Eli J. (See Bouché, W. F., and Blake.)
Blood, Burr B., assignor, by mesne assignments, to Jewel Phonoparts Company, Chicago, Ill. Phonograph reproducer. No. 1,419,913; June 20.
Blood, Burr B., assignor, by mesne assignments, to Jewel Phonoparts Company, Chicago, Ill. Stop device for phonographs. No. 1,419,914; June 20.
Blümel, Eduard. (See von Czerweny, V., and Blümel.)
Bohlmann, Theodore H. E., Maplewood, Mo. Piston ring. No. 1,420,406; June 20.
Bohman, Axel J., Minneapolis, Minn. Internal-combustion engine. No. 1,420,236; June 20.
Bolens, Harry W., Port Washington, Wis. One-piece metallic galley. No. 1,420,363; June 20.
Bolton, Harry. (See Wallace, George, assignor.)
Bone, Matthew. (See Parsons, C. A., Carnegie, and Bone.)
Bonin, Karl L., Chicago, Ill. Grater. No. 1,420,017; June 20.
Boone, Enoch, assignor to Phoenix Horse Shoe Company, Poughkeepsie, N. Y. Machine for making heels on horseshoe blanks. No. 1,420,517; June 20.
Boone, Enoch, assignor to Phoenix Horse Shoe Company, Poughkeepsie, N. Y. Making heeled horseshoes. No. 1,420,518; June 20.
Bouché, William F., Lancaster, and E. J. Blake, Buffalo, N. Y., assignors to Gould Coupler Company. Turbogenerator. No. 1,420,076; June 20.
Bower, George W., Schenectady, N. Y., assignor to General Electric Company. Suspension for trolley wires and the like. No. 1,420,407; June 20.
Bower, George W., Schenectady, N. Y., assignor to General Electric Company. Clamping ear. No. 1,420,408; June 20.
Bowser, Percy L. (See Joynt, J., and Bowser.)
Bowser, Percy L., St. Louis, Mo. Rotary compressor or rotary engine. No. 1,419,915; June 20.
Božić, Dobrivoje, Belgrade, Jugo-Slavia. Compressed-air continuous brake system for passenger or freight trains. No. 1,420,237; June 20.
Brand, Cleo H., et al. (See Montgomery, James P., assignor.)
Brand, George P., New York, N. Y. Pedal-operated exhaust mechanism for automatic musical instruments. No. 1,420,238; June 20.
Bray, Charles T., Salt Lake City, Utah. Slag-brick machine. No. 1,420,018; June 20.
Brehm, Charles M., Dayton, Ohio. Forming machine. No. 1,420,468; June 20.
Brehm, Charles M., Dayton, Ohio. Trimming machine. No. 1,420,469; June 20.
Brichetto, Louis, Cincinnati, Ohio. Burglar alarm. No. 1,419,954; June 20.
Brillhart, Walter E., Dallastown, Pa. Bolt clamp. No. 1,420,519; June 20.
Brinkerhoff, Howard C., Allston, Mass. Antirattling device for automobiles. No. 1,420,077; June 20.
Britton, Thomas E., Cedar Falls, Iowa. Combination truck and wagon dump. No. 1,420,078; June 20.
Brock, Richard E., Canton, assignor to The Woodward Machine Company, Wooster, Ohio. Continuous tube rolling mill. No. 1,420,239; June 20.
Brown, Raymond T., Lima, Ohio. Wrench. No. 1,420,409; June 20.
Bryan, Leon O., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Explosive composition. No. 1,420,364; June 20.
Bryar, George, Boston, Mass. Trolley. No. 1,419,955; June 20.
Buchanan, Cyrus B. (See Randlett, Willie O., assignor.)
Buckingham, Harry, et al., administrators. (See Mathews, Thomas.)
Budde, William, assignor of one-half to G. E. Pfeifer, Brooklyn, N. Y. Clothesline attachment. No. 1,420,178; June 20.
Bull, George F., assignor of one-half to Charles H. Pugh, Limited, Birmingham, England. Power-driven lawn mower, roller, and the like. No. 1,419,916; June 20.
Burgess Company, The. (See Burgess, Yorke, assignor.)
Burgess, Yorke, Chicago, Ill., assignor to The Burgess Company. Envelope. No. 1,420,470; June 20.
Burlin, Adolph L., Chorlton-on-Medlock, Manchester, England. Manufacture of pulp for paper, cardboard, artificial leather, and the like from peat. No. 1,420,303; June 20.
Bush, Carl, assignor of one-half to F. L. Walters, Mattoon, Ill. Beading-tool retainer. No. 1,420,240; June 20.
Butters-Camp Mfg. Co., The. (See Camp, W. H., and Butters, assignors.)
Butters, Robert H. (See Camp, W. H., and Butters.)
Bye, Karl, and P. Werle, Butte, Mont. Rail-bending device. No. 1,420,179; June 20.
Cain, John J., Bayonne, N. J. Making headers for tubular boilers. No. 1,420,241; June 20.
Calkins, William M., Syracuse, N. Y. Apparatus for mixing liquids. No. 1,420,079; June 20.
Camp, Warner H., and R. H. Butters, assignors to The Butters-Camp Mfg. Co., Atlanta, Ga. Rotary cutter for forming or renewing gin or linter saw teeth. No. 1,419,917; June 20.
Campbell, Leo F. (See Anderson, S. R., and Campbell.)
Canter, Vernon C. (See Voress, C. L., and Canter.)
Cappel, Joseph, Peoria, Ill. Barrel-head-securing device. No. 1,420,019; June 20.
Carbo-Oxygen Company. (See Harris, John, assignor.)
Carlson, Gust. (See White, C. E., and Carlson.)
Carnegie, Alfred Q. (See Parsons, C. A., Carnegie, and Bone.)
Carter, Joseph, Saskatoon, Saskatchewan, Canada. Multimagazine self-locking rifle. No. 1,420,471; June 20.
Case, J. I., Plow Works Company. (See Hendrickson, R. O., and Moree, assignors.)
Casmire, Frederick B., Chanute, Kans. Mop. No. 1,420,180; June 20.
Cawley, Aloysius J., Pittston, Pa. Sound-recording process. No. 1,420,304; June 20.
Ceriat, Eugene, Los Angeles, Calif. Tile construction. No. 1,420,020; June 20.
Cervenka, William F., Traverse City, Mich. Bank-protection system. No. 1,420,520; June 20.
Champeau, Lawrence X., Jersey City, N. J. Adjustable illumination device for skylights. No. 1,419,918; June 20.
Chandler, Jermain, Toledo, Ohio. Dispensing apparatus. No. 1,420,080; June 20.
Chantler, Henry C. (See Hedrick, H. L., and Chantler.)
Chapman, Matthew T., assignor to The American Well Works, Aurora, Ill. Means for boring wells. No. 1,420,365; June 20.
Charles, Merlin Y., Wichita, Kans. Reenforced hollow concrete wall. No. 1,420,521; June 20.
Chelsea Radio Co. (See Goodwin, Aubrey R., assignor.)
Chicago Pneumatic Tool Company. (See Dockham, Clarence H., assignor.)
Chicago Steel and Wire Company. (See Green, J. Birchard, assignor.)
Childs, James, Wallsend-upon-Tyne, and W. Evans, Walkerville-upon-Tyne, assignors of one-half to Swan Hunter & Wigham Richardson Limited, Wallsen-upon-Tyne, England. Bulkhead and the like. No. 1,420,305; June 20.
Christian, Walton G., Houston, Tex. Core-taking device. No. 1,420,242; June 20.
Cigol, Frank A., and L. D. Villa, Paterson, N. J. Painting rubber balls and the like. No. 1,420,306; June 20.
Cinch Expansion Bolt & Engineering Company. (See Kohler, Gottfrid, assignor.)
Cincinnati Bickford Tool Company, The, (See Klausmeyer, David C., assignor.)
Clairemont, Victor, San Francisco, Calif. Preparing eggs for storage. No. 1,419,956; June 20.
Clark, Bernard F. (See Lavaud, D. S., Clark, and Baines.)
Clark, W. Sam. (See Mallard, H., and White, assignors.)
Clark, Walter G., New York, N. Y. Automatic electric heating device for glass furnaces. No. 1,420,181; June 20.
Cleveland, William E., Medford, Mass. Steam boiler and making the same. No. 1,420,182; June 20.
Clippinger, John E. (See Reed, B. E., and Clippinger.)
Cobb, Pope, Brownsville, Tenn. Bed lock. No. 1,419,957; June 20.
Cocke, John D., Richmond, Va. Snow-removing machine. No. 1,420,522; June 20.
Cohen, Abe, Brooklyn, N. Y. Rat guard. No. 1,420,243; June 20.
Collins, Joseph B., Detroit, Mich. Tire carrier. No. 1,419,958; June 20.
Colville, John G. (See Knight, Frederick, assignor.)
Construction Appliance Co., The. (See Hallett, Fred N., assignor.)
Convertible Clock Case Company, Inc. (See Simons, Edward E., assignor.)
Cook, Mrs. Ida, administratrix. (See Bartell, William L.)
Cornish, Henry B., Liverpool, England. Electric switch. No. 1,420,472; June 20.
Coryell, Amelia, Denver, Colo. Toilet-article case. No. 1,420,523; June 20.
Coulson, William T., Anerley, London, England. Vehicular and other lamps. No. 1,420,524; June 20.
Cowden, Harry D., Pittsburg, Kans. Mop. No. 1,420,525; June 20.
Craig, J. L., et al. (See Mallard, H., and White, assignors.)
Crehan, Hubert, Pittsburgh, Pa. Bolt-finishing machine. No. 1,420,410; June 20.
Crummett, Richard H., Monterey, Va. Convertible hillside plow. No. 1,420,526; June 20.
Crystal Washing Machine Company. (See Sperlich, Herman A., assignor.)
Culmer, Claude C. J. (See Herbst, A. W., and Culmer.)
Currie, Emerson, assignor of one-half to A. E. Hughes and one-half to F. T. Hughes, Los Angeles, Calif. Engine ventilator. No. 1,420,411; June 20.
Curtiss Aeroplane & Motor Corporation. (See Curtiss, Glenn H., assignor.)
Curtiss, Glenn H., Hammondsport, N. Y., assignor to Curtiss Aeroplane & Motor Corporation. Hydroaeroplane. No. 1,420,609; June 20.

Curtiss, Glenn H., assignor to Curtiss Aeroplane & Motor Corporation, Garden City, N. Y. Getting a hydro-aeroplane off the water into the air. No. 1,420,610; June 20.
Czarczynski, Edward S., Buffalo, N. Y. Vehicle fender. No. 1,419,959; June 20.
Dail Steel Products Company. (See Palmer, George H., assignor.)
Dalton, Edmond G., Providence, R. I. Sifter. No. 1,420,412; June 20.
Daulton, Benjamin H., assignor to The Irwin Auger Bit Company, Wilmington, Ohio. Producing auger bits. No. 1,420,527; June 20.
Davis Automatic Cradle Company. (See Magidson, Frank, assignor.)
Davis, Donald C., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Buffer for railway rolling stock. No. 1,420,183; June 20.
Davis, Harold S. (See Bacon, R. F., and Davis.)
Davis, Howard C., Elizabeth, assignor to American Marine Equipment Corporation, New York, N. Y. Evaporator, feed-water heater, and the like. No. 1,420,366; June 20.
Davidson, William M., assignor to William Patent Crusher and Pulverizer Company, St. Louis, Mo. Crusher and pulverizer. No. 1,420,021; June 20.
Dawson, Axel G. (See Dawson, Carl E. and A. G.)
Dawson, Carl E. and A. G., Cleveland, Ohio. Partition for buildings. No. 1,420,473; June 20.
Day, Albert V. T., New Rochelle, N. Y. Self-luminous writing instrument. No. 1,420,184; June 20.
Day, Albert V. T., New Rochelle, N. Y. Self-luminous marker for screw heads and nail heads. No. 1,420,185; June 20.
Day, Edgar K., assignor to Whitaker-Glessner Company, Wheeling, W. Va. Fastening device. No. 1,420,528; June 20.
Deagan, John C., Chicago, Ill. Master tuning fork and supporting resonator. No. 1,419,919; June 20.
Decarie, Noel, Montreal, Quebec, Canada. Thermometer. No. 1,420,022; June 20.
Decker, Thomas H., Chicago, Ill. Detachable armrest for automobiles. No. 1,420,023; June 20.
Deere & Company. (See White, C. E., and Carlson, assignors.)
Delaney, Laurence F., Watertown, N. Y. Means for turning motor vehicles. No. 1,420,307; June 20.
De Laval Separator Company, The. (See Hall, Selden H., assignor.)
De Lavaud, Dimitri S. (See Lavaud, D. S., Clark, and Baines.)
Dell, Emory E., Detroit, Mich. Safety booth for cashiers' cages. No. 1,419,960; June 20.
De Mauraige, Charles, St. Sixte, Quebec, Canada. Bayonet. No. 1,419,961; June 20.
Denham, William L., Birmingham, Ala. Aeroplane. No. 1,419,962; June 20.
De Sevo, Raphael, East Longmeadow, Mass. Lock. No. 1,420,186; June 20.
Deutsch, Fred. (See Reisfeld, Louis, assignor.)
Dever, James. (See Luedke, Julius C., assignor.)
Devine, Joseph P., Buffalo, N. Y. Apparatus for drying the covering of electrical conductors or the like. No. 1,420,367; June 20.
De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Presser-lifting mechanism for sewing machines. No. 1,420,413; June 20.
De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Attachment for sewing machines. No. 1,420,414; June 20.
Diaphone Signal Company Limited, The. (See Weston, A. H., and Zilliox, assignors.)
Dickinson, Fredrick S., New York, N. Y. Constructing pneumatic tires. No. 1,420,611; June 20.
Diehl, Frank, Wabash, Ind. Gluing clamp and drier. No. 1,420,244; June 20.
Diehl, Walter R. (See Sharp, David C., and Diehl.)
Diescher, L., & Sons. (See Angstrom, Carl J., assignor.)
Dillaber, Alvin R., Grosvenor Dale, Conn., assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,420,529; June 20.
Dirienzo, Vincent, Madison, Wis. Pneumatic tire. No. 1,420,081; June 20.
Diss, Albert B., Newark, N. J., assignor to The Bassick Company, Bridgeport, Conn. Caster. No. 1,420,415; June 20.
Dlesk, John, Berwyn, assignor to U. S. Ball Bearing Manufacturing Company, Chicago, Ill. Dustproof ball bearing. No. 1,420,416; June 20.
Dockham, Clarence H., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Drill. No. 1,420,417; June 20.
Doroszuk, Tom, Polley, Wis. Combination table and chair. No. 1,420,368; June 20.
Dougherty, Edward D., Dallas, Tex. Pneumatic-tire valve. No. 1,420,245; June 20.
Dougherty, James W., McKeesport, Pa. Toy vehicle. No. 1,420,308; June 20.
Douglas, Ernest, Portersville, Calif. Marking machine. No. 1,420,187; June 20.
Douglass, Benjamin, Fulton, Ark. Steering device for tractor-drawn machines. No. 1,420,188; June 20.
Douglass, William O., Broken Arrow, Okla. Plow Point. No. 1,420,024; June 20.
Dow, Alva M., Braintree, Mass. Dishwashing machine. No. 1,420,418; June 20.
Dowd, Bernard J., Hartford, Conn., assignor to Royal Typewriter Company, Inc., New York, N. Y. Sound-muffling pad for typewriting machines. No. 1,420,082; June 20.
Drake, Verna P., Oklahoma, Okla. Lawn mower and clippers. No. 1,420,309; June 20.
Draper Corporation. (See Dillaber, Alvin R., assignor.)
Drumheller, William P., Springfield, assignor to William Carter Company, Needham Heights, Mass. Yarn control for knitting machines. No. 1,420,530; June 20.
Duken, Albert J., Chicago, Ill. Vehicle towing crane. No. 1,420,369; June 20.
Dunham Company, The. (See Wagner, Joseph F., assignor.)
Dunker, Charles H., et al., administrators. (See Shuman, Frank.)
Dunlap, Forrest B., assignor of one-half to H. L. Sullivan, Tulsa, Okla. Pull-rod bearing. No. 1,420,025; June 20.
Du Pont, E. I., de Nemours and Company. (See Andreau, Roland L., assignor.)
Du Pont, E. I., de Nemours & Company. (See Bryan, Leon O.)
Dura Company, The. (See Lawrence, J. D., and Nicholson, assignors.)
Dutkiewicz, Valentin, Paris, and C. Isambert, Ablis, France. Endless track. No. 1,420,531; June 20.
Dvorak, Anton, Berwyn, Ill., assignor to Beardslee Chandelier Manufacturing Company. Lighting fixture. No. 1,419,920; June 20.
Eckre, Olof A., Kindred, N. Dak. Commutator. No. 1,420,026; June 20.
Economy Hoist & Body Co., Inc. (See Hribst, A. W., and Culmer, assignors.)
Edwards, William H., Garysburg, assignor of one-half to J. F. Pennewell, Gumberry, N. C. Pipe grip. No. 1,420,532; June 20.
Efficiency Machine Tool Products Co., The. (See Goordman, Elmer O., assignor.)
Ehresmann, Adam. (See Streibel, Ludwig, assignor.)
Ehrman, Bertha, S. Johanson, C. M. Johanson, and P. M. Peterson, Tacoma, Wash. Clamp for ironing-board cloths. No. 1,420,027; June 20.
Eichengrün, Arthur, Berlin, Germany, assignor, by mesne assignments, to American Cellone Company (Inc.), New York, N. Y. Production of noninflammable celluloid. No. 1,420,028; June 20.
Eichman, Arthur W., assignor to A. Mueller, trustee, Decatur, Ill. Crushed-fruit jar. No. 1,419,921; June 20.
Elliott, A. Harlan, et al. (See Anderson, Roy H., assignor.)
Elliott, Alexander D., Viola, Ill., assignor to A. Stein & Company, Chicago, Ill. Folding machine. No. 1,420,474; June 20.
Elliott, Alexander D., Viola, Ill., assignor to A. Stein & Company, Chicago, Ill. Folding machine. No. 1,420,475; June 20.
Ely, George B., Olivet, Mich., assignor of two-thirds to W. H. Ortman, Milwaukee, Wis. Clothesline fastener. No. 1,420,370; June 20.
Emmons, Kenneth L., Wilmington, Del. Oven for vulcanizing, baking, and other uses. No. 1,420,371; June 20.
Endres, Lawrence M., and M. A. Endres, Dane, Wis. Splash lubricating system. No. 1,420,083; June 20.
Endres, Michael A. (See Endres, Lawrence M. and M. A.)
English, Fred S., New London, Conn. Feed table for printing presses. No. 1,420,084; June 20.
Erickson, John A. P., Northland, Minn. Candle. No. 1,420,476; June 20.
Evans, Robert N. (See Evans, Rudolph W., assignor.)
Evans, Rudolph W., Hamilton, Ontario, Canada. Chain fastener. No. 1,420,372; June 20.
Evans, Rudolph W., assignor to R. N. Evans, Hamilton, Ontario, Canada. Antiskid chain. No. 1,420,533; June 20.
Evans, William. (See Childs, J., and Evans, assignors.)
Everitt, James, London, England. Wardrobe rack. No. 1,420,534; June 20.
Eymon Crossing Company, The. (See Wilson, Byron E., assignor.) (Reissue.)
Faber, Otto, La Porte, Tex. Cement interlocking plate. No. 1,420,246; June 20.
Fairlie, Andrew M., Atlanta, Ga. Recovery of oxides of nitrogen in sulphuric-acid manufacture. No. 1,420,477; June 20.
Farrell, Thomas H., Fort Collins, Colo. Antiwashing construction for roads. No. 1,420,535; June 20.
Faust, John G., Washington, D. C. Flying machine. No. 1,420,247; June 20.
Faust, Lewis A., Roselle Park, N. J. Injector valve. No. 1,420,419; June 20.
Fay, Nellie L., assignor of one-half to L. E. Scofield, New York, N. Y. Brassière. No. 1,420,248; June 20.
Fibre Container Company. (See Walter, Harrison B., assignor.)
Fich, Alfred B. A., Copenhagen, Denmark. Preserving food. No. 1,420,373; June 20.
Field, John C., Butte, Mont. Fly swatter. No. 1,420,536; June 20.
Figielek, A., Centralia, Ill. Toenail-growing guide. No. 1,420,085; June 20.

Fleming, Glen W., Cleveland, Ohio. Valve-spring supports for valve grinding. (Reissue.) No. 15,388; June 20.
Flory, Timothy, Dunkirk, Ohio. Churn. No. 1,420,537; June 20.
Flowers, Neat D., Bailey, N. C. Dry closet. No. 1,420,420; June 20.
Folberth, Fred G., and W. M. Folberth, Cleveland, Ohio. Windshield cleaner. No. 1,420,538; June 20.
Folberth, William M. (See Folberth, Fred G., and W. M.)
Foley, Timothy C., Renovo, Pa. Chuck and tool holder. No. 1,420,029; June 20.
Forbush, Walter R., Newton, Mass. Wall construction. No. 1,420,478; June 20.
Ford, Hannibal C., New York, N. Y., assignor to Ford Instrument Company, Inc. Signal system. No. 1,420,030; June 20.
Ford Instrument Company Inc. (See Ford, Hannibal C., assignor.)
Foreman, Samuel E., Paducah, Ky. Automatic carburetor control. No. 1,419,963; June 20.
Forsyth, Robert B., Christchurch, New Zealand. Milking-machine pulsator. No. 1,420,421; June 20.
Foss, William A., Cleveland, Ohio. Artificial bait. No. 1,420,422; June 20.
Fowler and Union Horse Nail Company, (Inc.). (See Lange, Gustav W., and G. M., assignors.)
Fox, Ralph E., New York, N. Y. Flexible graph. No. 1,420,249; June 20.
Fox, Thomas S., Brooklyn, N. Y. Printing. No. 1,420,086; June 20.
Franklin, Charles B., assignor to Hendee Manufacturing Company, Springfield, Mass. Kick-starter support. No. 1,420,479; June 20.
Frantz Manufacturing Co. (See Frantz, Peter, assignor.)
Frantz, Peter, assignor to Frantz Manufacturing Co., Sterling, Ill. Garage-door construction. No. 1,420,087; June 20.
Frenne, Nils G. H., assignor to Aktiebolaget Vaporackumulator, Stockholm, Sweden. Locomotive shed or the like. No. 1,419,964; June 20.
Frick, Rudolph, Burlington, Iowa. Automatic mail-pouch catcher. No. 1,420,374; June 20.
Friedrich, Edward, San Antonio, Tex. Butcher's ice box. No. 1,420,088; June 20.
Funsch, Adam J., Brooklyn, N. Y. Pencil sharpener. No. 1,420,539; June 20.
Gales, Arthur C., Milwaukee, Wis. Automatic shoe cleaner. No. 1,420,375; June 20.
Galvanophoren-Werke (System Vogt) S. Szubert, Commandit-Gesellschaft. (See Vogt, Agnes, assignor.)
Garcia, Joseph B., San Francisco, Calif. Smoking appliance. No. 1,420,089; June 20.
Gardner, Howard S., East Orange, N. J. Apparatus for hoisting materials. No. 1,420,310; June 20.
Garoff, Nikolai, Helsingfors, Finland. Carburetor for internal-combustion engines. No. 1,420,090; June 20.
Garrison, Lloyd, Salt Lake City, Utah. Automatic furnace. No. 1,420,091; June 20.
Gasoline Recovery Corporation. (See Voress, C. L., and Canter, assignors.)
Gavett, Weston, Plainfield, N. J. Sewage disposal. No. 1,420,250; June 20.
Gavitt, Arthur W., assignor to A. Stein & Company, Chicago, Ill. Folding machine for fabric blanks. No. 1,420,480; June 20.
Gelfond, Louis, Newport News, Va. Spring wheel. No. 1,420,251; June 20.
General American Tank Car Corporation. (See Weaver, Robert R., assignor.)
General Electric Company. (See Alexanderson, Ernst F. W., assignor.)
General Electric Company. (See Bower, George W., assignor.)
General Electric Company. (See Place, Claude W., assignor.)
General Phonograph Manufacturing Company, The. (See Manson, Ray H., assignor.)
Gerbel, Erich, Mannheim, Germany. Machine for working up ceramic masses into tiles, disks, and similar bodies. No. 1,420,093; June 20.
Gerrie, Harry R., Montreal, Quebec, Canada. Tire carrier. No. 1,419,965; June 20.
Giandalia, Salvatore, son of Antonio, assignor of one-half to S. Tani, Auburn, Ill. Shoe-polishing machine. No. 1,420,540; June 20.
Gilbert, Levi L., Chicago, Ill. Automobile tool. No. 1,419,922; June 20.
Gillespie, Alexander, Pittsfield, Ill., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Crusher and pulverizer. No. 1,420,031; June 20.
Gilson, John E., Port Washington, Wis. Garden tool. No. 1,420,423; June 20.
Girard, Antoine L., Sterling Junction, Mass. Noisemaker. No. 1,419,923; June 20.
Glaeser, Martin T., Chicago, Ill. Incubator. No. 1,420,092; June 20.
Gliedman, Selig, New York, N. Y. Cap. No. 1,420,032; June 20.
Goblet, Peter, assignor to All-Steel-Equip Company, Aurora, Ill. Hinge. No. 1,420,481; June 20.
Goehr, Louis, San Francisco, Calif. Punching jig. No. 1,420,252; June 20.
Goerz, C. P., American Optical Company. (See Mueller, Emil M., assignor.)
Goldring, Mendel. (See Klemer, Benjamin, assignor.)
Goordman, Elmer O., Norge, Va., assignor to The Efficiency Machine Tool Products Co., Bridgeport, Conn. Self-gripping mandrel. (Reissue.) No. 15,390; June 20.
Goodrum, Charles L., assignor, by mesne assignments, to Western Electric Company, Incorporated, New York, N. Y. Automatic telephone-exchange system. (Reissue.) No. 15,389; June 20.
Goodson, Stephen A., Hillsboro, Ill. Beet topper. No. 1,420,482; June 20.
Goodwin, Aubrey R., Melrose, assignor to Chelsea Radio Co., Chelsea, Mass. Variable grid resistance. No. 1,420,189; June 20.
Gorden G. Murl, Portland, Oreg. Cash-register system. No. 1,420,311; June 20.
Gould Coupler Company. (See Bouché, W. F., and Blake, assignors.)
Gould Coupler Company. (See Davis, Donald C., assignor.)
Gould Coupler Company. (See Sauvage, William H., assignor.)
Grass, Zack, Heiner, Ky. Splice and sectional insulator. No. 1,420,541; June 20.
Green, J. Birchard, assignor to Chicago Steel and Wire Company, Chicago, Ill. Reel. No. 1,420,094; June 20.
Greve, Edgar E., Bellevue, assignor to Oil Well Supply Company, Pittsburgh, Pa. Pitman connection for oil-well apparatus. No. 1,420,033; June 20.
Greve, Edgar E., Bellevue, Pa. Rope clamp. No. 1,420,034; June 20.
Griffin, Stephen W., Waterloo, Ill. Variable-speed mechanism. No. 1,420,253; June 20.
Grindle, Aubrey J., Chicago, Ill., assignor to Grindle Fuel Equipment Company. Melting furnace. No. 1,420,312; June 20.
Grindle Fuel Equipment Company. (See Grindle, Aubrey J., assignor.)
Griner, George S., Cleveland, Ohio. Basket. No. 1,420,542; June 20.
Guernsey, Frank A., et al. (See Mallard, H., and White, assignors.)
Gutter, Adam, Horning, Pa. Collapsible chair. No. 1,420,095; June 20.
Hague, Alfred G., Des Moines, Iowa. Photographic device. No. 1,420,096; June 20.
Hahn, Eugene, Philadelphia, Pa. Ejector. No. 1,420,543; June 20.
Hahn, Eugene, Philadelphia, Pa. Ash ejector. No. 1,420,544; June 20.
Hainline, Herbert M., Scioto, Ill. Combination lock. No. 1,420,483; June 20.
Hall, Charles S., Los Angeles, Calif. Aircraft propeller. No. 1,420,313; June 20.
Hall, Selden H., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Vacuum-regulating apparatus. No. 1,420,035; June 20.
Hallett, Fred N., Seattle, Wash., assignor to The Construction Appliance Co. Bolting-up device. No. 1,420,424; June 20.
Hamel Shoe Machinery Company. (See Valois, Félix E., assignor.)
Hamlink, Lazenby C. (See Kersting, Albert F., assignor.)
Hammond, John H., Jr., Gloucester, Mass. Electric-wave transmission. No. 1,420,254; June 20.
Hammond, John H., Jr., Gloucester, Mass. Antenna for radiotransmission systems. No. 1,420,255; June 20.
Hammond, John H., Jr., Gloucester, Mass. System of teledynamic control. No. 1,420,256; June 20.
Hammond, John H., Jr., Gloucester, Mass. System and apparatus for automatic wave selection. No. 1,420,257; June 20.
Hammond, John H., Jr., Gloucester, Mass. System for the radiocontrol of moving bodies. No. 1,420,258; June 20.
Hammond, Myron B., and H. H. Taylor, assignors to The Thomas P. Taylor Co., Bridgeport, Conn. Man's garter. No. 1,419,924; June 20.
Hand, Jay A. (See Kuhn, F., and Hand.)
Hansen, Hans C. (See Hansen, William and H. C., and Bearby.)
Hansen, William, H. C. Hansen, and C. Bearby, Chicago, Ill. Safety fender for automobiles. No. 1,420,036; June 20.
Hard Mfg. Co. (See Wujek, Martin J., assignor.)
Hardman, Semion L., Ocean Park, Calif. Caster. No. 1,420,190; June 20.
Hare, Frank E., Manchester, Iowa. Telephone or desk memorandum. No. 1,419,966; June 20.
Harris, John, Lakewood, Ohio, assignor to Carbo-Oxygen Company, Pittsburgh, Pa. Electrolytic cell. No. 1,420,037; June 20.
Harvey, George E., Buffalo, N. Y., assignor to Harvey Rim & Wheel Company. Disk wheel. No. 1,420,097; June 20.
Harvey Rim & Wheel Company. (See Harvey, George E., assignor.)
Haslett, Oscar S., Jersey City, N. J. Speed indicator and signal. No. 1,420,314; June 20.
Hassig, Arnold, Detroit, Mich. Flower box. No. 1,420,191; June 20.
Hassler, Robert H., Indianapolis, Ind. Shock absorber. No. 1,420,098; June 20.
Hastings, H. Gibson, et al. (See Anderson, Roy H., assignor.)

Hauser, Frederick, San Francisco, Calif. Sash frame. No. 1,420,099; June 20.
Hauser, Frederick, San Francisco, Calif. Ventilator for metallic sash frames. No. 1,420,100; June 20.
Hayden, Edwin A., Salt Lake City, Utah. Nonrefillable bottle. No. 1,420,545; June 20.
Hayes, Stanley W., assignor to Hayes Track Appliance Company, Richmond, Ind. Derail. No. 1,420,425; June 20.
Hayes, Stanley W., assignor to Hayes Track Appliance Company, Richmond, Ind. Hand-operated derail. No. 1,420,426; June 20.
Hayes Track Appliance Company. (See Hayes, Stanley W., assignor.)
Hebrock, Richard G., Irvington, N. J. Metallic radiator thermometer. No. 1,420,038; June 20.
Hedges, Edward G. (See Shoppe, F. L., Hedges, and Heroy.)
Hedrick, Harold L., and H. C. Chantler, Columbus, Ohio. Attachment for typewriters. No. 1,420,259; June 20.
Heine, William, Milwaukee, Wis. Sprinkling apparatus. No. 1,419,925; June 20.
Heineke & Company. (See Heineke, Martin L., assignor.)
Heineke, Martin L., assignor to Heineke & Company, Springfield, Ill. Thrashing-machine feeder. No. 1,419,926; June 20.
Hellesoe, Hans H., Chicago, Ill. Rubber type. No. 1,420,376; June 20.
Hendee Manufacturing Company. (See Franklin, Charles B., assignor.)
Hendrickson, Robert O., and K. E. Moree, assignors, by mesne assignments, to J. I. Case Plow Works Company, Racine Wis. Flanging machine. No. 1,420,427; June 20.
Henning, Joseph, Newburgh, N. Y. Attachment for tool holders. No. 1,419,967; June 20.
Henry, George, San Francisco, Calif. Check and money-order case. No. 1,420,260; June 20.
Herbst, Abram W., and C. C. J. Culmer, assignors to Economy Hoist & Body Co., Inc., New York, N. Y. Dumping truck. No. 1,420,315; June 20.
Hermelink, Herman, Jr., and R. B. Shiffner, Kansas City, Mo. Barrel lift. No. 1,420,546; June 20.
Heroy, Walter W. (See Shoppe, F. L., Hedges, and Heroy.)
Herrick, Bert L., Oakland, Calif. Creeper. No. 1,420,101; June 20.
Hertenstein, Charles, Chicago, Ill. Fishing-line reel. No. 1,420,428; June 20.
Hewlett, Ernest L., Norfolk, Va. Discharge valve for air compressors. No. 1,420,429; June 20.
Hibbard, George E., Chicago, Ill. Accelerating dry-pipe valve. No. 1,420,192; June 20.
Hickenlooper, Frank, Albia, Iowa. Hack-saw holder. No. 1,420,484; June 20.
Hilburn, James C., Thornburg, Ark. Saw dressing and gauging tool. No. 1,420,547; June 20.
Hilenbrant, Harry, Cincinnati, Ohio. Combined proving and baking oven. No. 1,420,102; June 20.
Hill, Herbert N., Belmond, Iowa. Watch. No. 1,420,261; June 20.
Hilton, Calvin E., Witten, S. Dak. Attachment for hay stackers. No. 1,420,548; June 20.
Hodgkinson, Francis, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Co. Packing. No. 1,419,927; June 20.
Holland, Kirk D., Chicago, Ill. Piston. No. 1,419,928; June 20.
Holland, Newman H., assignor to New Jersey Patent Company, West Orange, N. J. Phonograph. No. 1,420,316; June 20.
Holland, Newman H., assignor to New Jersey Patent Company, West Orange, N. J. Sound-recording apparatus. No. 1,420,317; June 20.
Hopkins, John C., Cedar Rapids, Iowa. Carrier for tokens. No. 1,420,377; June 20.
Horelick, Samuel, Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Transformer. No. 1,420,103; June 20.
Horn, Max, Tower City, Pa. Clock. No. 1,420,549; June 20.
Horstkotte, Garry A., assignor to Abbott, Incorporated, Bend, Oreg. Radiator funnel. No. 1,420,039; June 20.
Howard, Joseph O., Detroit, Mich. Toy aeroplane. No. 1,420,193; June 20.
Howard, Joseph O., Evanston, Ill. Toy aeroplane. No. 1,420,194; June 20.
Howe, Edward W., Toledo, Ohio. Brush-block-boring machine. No. 1,420,104; June 20.
Hughes, Arthur E., et al. (See Currie, Emerson, assignor.)
Hughes, Fred T., et al. (See Currie, Emerson, assignor.)
Hurtz, Henry E., Hawthorne, N. J. Textile reed. No. 1,420,262; June 20.
Hutchins, John, Auburn, Wash. Measuring instrument. No. 1,420,105; June 20.
Ide, Geo. P., & Company, Inc. (See Twining, Frank B., assignor.)
Inghram, Howard T., Chicago, Ill. Apparatus for making cup pastry. No. 1,420,378; June 20.
Interstate Iron and Steel Company. (See McConnell, John, assignor.)
Irwin Auger Bit Company, The. (See Daulton, Benjamin H., assignor.)
Irwin, Herbert G., Amarillo, Tex. Push-bar attachment for tractors. No. 1,420,106; June 20.
Isaachsen, Isak, assignor to A/S de Norske Saltverker, Christiania, Norway. Nutcracker. No. 1,420,263; June 20.
Isambert, Constant. (See Dutkiewicz, Valentin and Isambert.)
Ivins, Ellwood, Philadelphia, Pa. Working-barrel tube. No. 1,420,551; June 20.
Jackson, Andrew O. (See Jackson, Thaddeus A., assignor.)
Jackson, Thaddeus A., assignor to A. O. Jackson, Brooklyn, N. Y. Machine for refinishing metal containers. No. 1,419,929; June 20.
Jacobs, Jesse P., Shelbyville, Tenn. Wheel for automobiles. No. 1,420,195; June 20.
Jaeckle, Friedrich, and P. Mehlhorn, Freiburg, Germany. Means for securing the sections of a mast or pole together. No. 1,420,430; June 20.
Jewel Phonoparts Company. (See Blood, Burr B., assignor.)
Johanson, Claus M. (See Ehrman, B., Johanson, and Peterson.)
Johanson, Sara. (See Ehrman, B., Johanson, and Peterson.)
Johnson, Allan E., Montreal, Quebec, Canada. Box-car unloader. No. 1,420,431; June 20.
Johnson, George F., Springfield, Ill. Variable electrostatic condenser. No. 1,420,485; June 20.
Johnson, Hilding J., Salt Lake City, Utah. Gun. No. 1,419,968; June 20.
Jones, Edmund H., assignor to Milwaukee Corrugating Company, Milwaukee, Wis. Corner strip for plastered walls. No. 1,420,040; June 20.
Jones, Herbert, Bevier, Mo. Marking device for planters. No. 1,420,550; June 20.
Jones, James E. (See Moody, William E., assignor.)
Joynt, James, and P. L. Bowser, assignors to Arctic Rotary Pump Company, St. Louis, Mo. Rotary compressor or rotary engines. No. 1,419,930; June 20.
Karitzky, John, Garwood, assignor, by mesne assignments, to H. B. Newhall, Plainfield, N. J. Conduit or cable clamp and bridle ring. No. 1,419,931; June 20.
Karitzky, John, Garwood, assignor, by mesne assignments, to H. B. Newhall, Plainfield, N. J. Conduit or cable clamp and bridle ring. No. 1,419,932; June 20.
Kaufler, Felix, assignor to Firm Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie, G. m. b. H. Munich, Germany. Manufacture of dichlorethylene. No. 1,419,969; June 20.
Kaufman, Michael, New Haven, Conn. Musical toy. No. 1,420,109; June 20.
Kayser, Mary, Baltimore, Md. Method and apparatus for waving hair. No. 1,419,933; June 20.
Keene, Wendell P., Brooklyn, N. Y., assignor to Underwood Typewriter Company. Typewriting machine. No. 1,419,970; June 20.
Keller, George E. (See Koenneke, H. P., and Miller, assignors.)
Keller, William H., Grand Haven, Mich. Pneumatic tool. No. 1,420,318; June 20.
Kelley, George L., Buffalo, N. Y. Metal-routing machine. No. 1,420,319; June 20.
Kelly, John, Chicago, Ill. Bottle closure. No. 1,420,320; June 20.
Kennedy, Eugene H., Mansfield, Ohio. Heating apparatus. No. 1,420,264; June 20.
Kennedy, Joseph, Providence, R. I. Automatic bread-molding machine. No. 1,420,486; June 20.
Kent, Robert J., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Hook. No. 1,420,487; June 20.
Kersting, Albert E., Spring Hill, Ala., assignor of one-half to L. C. Hamlink, Cleveland, Ohio. Method of and apparatus for manufacturing gas. No. 1,420,041; June 20.
Kieckhefer, William, Milwaukee, Wis. Bookmark. No. 1,420,265; June 20.
King, Albert E., Los Angeles, Calif. Blowpipe. No. 1,420,107; June 20.
Kinney, Charles, Elmira Heights, assignor, by mesne assignments, of one-third to L. M. Ostrander, Elmira, N. Y. Sulky plow. No. 1,420,108; June 20.
Kjellberg, Björn P. F., Stockholm, Sweden. Treating minerals containing iron, titanium, and vanadium. No. 1,419,971; June 20.
Klasing, Augustus F., Denver, Colo., assignor to The Klasing Car Brake Company. Car brake. No. 1,420,552; June 20.
Klasing, Augustus F., Denver, Colo., assignor to The Klasing Car Brake Company. Car brake. No. 1,420,553; June 20.
Klasing, Augustus F., Chicago, Ill., assignor to The Klasing Car Brake Company. Apparatus for manipulating railway-car brakes. No. 1,420,554; June 20.
Klasing, Augustus F., Chicago, Ill., assignor to The Klasing Car Brake Company. Lifting device. No. 1,420,555; June 20.
Klasing, Augustus F., Chicago, Ill., assignor to The Klasing Car Brake Company. Lifting mechanism. No. 1,420,556; June 20.
Klasing Car Brake Company, The. (See Klasing, Augustus F., assignor.)
Klausmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Oakley, Cincinnati, Ohio. Box table. No. 1,420,321; June 20.
Klein, Erwin, Voslau, near Vienna, Austria. Preparing dried yeast. No. 1,420,557; June 20.

Klein, Erwin, Voslau, near Vienna, Austria. Drying yeast. No. 1,420,558; June 20.
Klemer, Benjamin, assignor of one-half to M. Goldring, Providence, R. I. Automatic opener for traveling bags and the like. No. 1,419,934; June 20.
Kligge, Albert, assignor of one-half to P. A. Schumacher, Brooklyn, N. Y. Piston locator. No. 1,420,110; June 20.
Knight, Frederick, assignor to J. G. Colville, Victoria, British Columbia, Canada. Drain valve. No. 1,420,559; June 20.
Knight, Ralph F., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Mold and making same. No. 1,419,972; June 20.
Knox, Samuel L. G., San Rafael, Calif. Internal-combustion engine. No. 1,420,266; June 20.
Koenneke, Harry P., and W. F. Miller; said Koenneke assignor of his entire right to G. E. Keller, Dayton, Ohio. Expansible core. No. 1,420,488; June 20.
Kohler, Gottfrid, Bridgeport, Conn., assignor to Cinch Expansion Bolt & Engineering Company, New York, N. Y. Tamping tool. No. 1,420,196; June 20.
Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Safety panel box. No. 1,420,111; June 20.
Krantz Manufacturing Company. (See Krantz, Hubert F., assignor.)
Kreuzer, William C., assignor to The Will & Baumer Company, Syracuse, N. Y. Candle wick. No. 1,420,322; June 20.
Kritz, Frank, Detroit, Mich. Machine and method for forming and bending tubes. No. 1,420,042; June 20.
Krump, Nic, Chicago, Ill. Suspended two-rail track. No. 1,420,112; June 20.
Kuehn, George F., assignor to L. W. Rosenthal, Springfield, Mass. Jack. No. 1,420,114; June 20.
Kuehn, George F., Springfield, and L. W. Rosenthal, Longmeadow, Mass.; said Kuehn assignor to said Rosenthal. Jack. No. 1,420,113; June 20.
Kuhn, Frank, and J. A. Hand, assignors to American Electrical Heater Company, Detroit, Mich. Electrical heater. No. 1,419,935; June 20.
Lacasse, Joseph A., Lake Linden, Mich. Motor sleigh. No. 1,420,267; June 20.
Lachman, Maurice, New York, N. Y., assignor to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,420,432; June 20.
Ladd, James B., Ardmore, Pa., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Pipe-cutting-off machine. No. 1,419,936; June 20.
La Hodny, William, Buffalo, N. Y. Bracket for supporting mirrors. No. 1,420,268; June 20.
Lancaster, John H. (See Mason, Ralph K., assignor.)
Landry, Oneseme, New Bedford, Mass. Filling-feeler mechanism for automatic looms. No. 1,420,560; June 20.
Lange, Gustav M. (See Lange, Gustav W. and G. M.)
Lange, Gustav W., and G. M., Buffalo, assignors to The Fowler and Union Horse Nail Company (Inc.), Tonawanda, N. Y. Conveying apparatus for annealing furnaces and the like. No. 1,420,115; June 20.
La Rock, John, Chicago, Ill. Machine tool. No. 1,420,323; June 20.
Lasbury, Vincent, Griggsville, Ill. Camp stove. No. 1,420,043; June 20.
Lavaud, Dimitri S., otherwise known as D. S. de Levaud, Toronto, Ontario, Canada; B. F. Clark, London, and C. W. Baines, Melton Mobray, assignors to The Metallurgical Plant Construction Company Limited, Manchester, England, a Company of Great Britain. Apparatus for use in tempering and annealing. No. 1,420,379; June 20.
Lawrence, John D., and S. W. Nicholson, assignors to The Dura Company, Toledo, Ohio. Window-control mechanism. No. 1,419,937; June 20.
Leander, Knut, Albany, assignor to Ludlum Electric Furnace Corporation, Watervliet, N. Y. Electric furnace. No. 1,420,561; June 20.
Lechler, Harry L., St. Louis, Mo. Pot-holding attachment for faucets. No. 1,420,197; June 20.
Lewis, George S., Rochester, N. Y. Leafed article. No. 1,420,324; June 20.
Lewis, Guy V., Houston, Tex. Device for unscrewing and drawing pipes. No. 1,420,044; June 20.
Lewis, Harry F., Buffalo, assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Purifications of anthraquinone. No. 1,420,198; June 20.
Lewis, Jesse A., and L. L. Rew, Niagara Falls, N. Y. Rail joint. No. 1,419,973; June 20.
Lightner, Harvey E., Tecumseh, Okla. Wrench. No. 1,420,116; June 20.
Limousine Body Company. (See Miner, Charles A., assignor.)
Lindsay, John G., et al. (See Montgomery, James P., assignor.)
Lippert, John P., East Cleveland, Ohio. Fluid trap. No. 1,420,045; June 20.
Little, Earl W., Indianapolis, Ind. Bottle-capping machine. No. 1,420,325; June 20.
Ljungstrom, Fredrik, Brevik, Lidingon, assignor to Aktiebolaget Ljungstroms Angturbin, Stockholm, Sweden. Means for effecting draft in locomotive boilers. No. 1,420,380; June 20.
Lockwood, Burns D., Bellevue, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Vehicle wheel. No. 1,420,199; June 20.
Long, Daniel D., Boise, Idaho. Feeding attachment. No. 1,420,200; June 20.
Ludlum Electric Furnace Corporation. (See Leander, Knut, assignor.)
Luedke, Julius C., assignor of one-tenth to J. Dever, Sioux City, Iowa. Tobacco pipe. No. 1,420,117; June 20.
Lundeen, Nels J., Tacoma, Wash. Concealed hinge. No. 1,420,326; June 20.
McAllister, Bert A., Wadsworth, Ohio. Manure loader. No. 1,420,118; June 20.
McBrian, Robert D., Ripon, Calif. Oil-test-cock-operating means for Ford cars. No. 1,420,119; June 20.
McBrien, Robert J., Eastland, Tex. Cooker. No. 1,420,562; June 20.
McCarn, Harry H., Seattle, Wash. Dry-pipe valve. No. 1,420,269; June 20.
McCasland, Charles O., St. Louis, Mo. Liquid-dispensing machine. No. 1,420,327; June 20.
McConnell, John, assignor to Interstate Iron and Steel Company, Chicago, Ill. Making alloy steel. No. 1,420,328; June 20.
McFerran, John B., Jr., Louisville, Ky. Power-driven agitating mechanism. No. 1,420,270; June 20.
McGarey, Richard C., Berlin, N. H. Brush. No. 1,420,563; June 20.
McLane, Joseph A., Morgantown, W. Va. Method and apparatus for producing weftless cloth. No. 1,420,271; June 20.
McLaughlin, James, Pontardulais, Wales. Shackle, chain, coupling, or the like. No. 1,419,974; June 20.
McLeod, Walter H., St. Paul, Minn. Movable headlight. No. 1,420,564; June 20.
McMahon, Robert B. (See Pierini, Humbert, assignor.)
McRae, William W., Waituna Waikari, New Zealand. Rim for the wheels of motor cars and other vehicles. No. 1,420,329; June 20.
MacDowell, Charles H., Chicago, Ill., and H. H. Meyers, Pittsburgh, Pa., assignors to Armour Fertilizer Works, Chicago, Ill. Manufacture of sulphuric acid. No. 1,420,202; June 20.
MacDowell, Charles H., Chicago, Ill., and H. H. Meyers, Pittsburgh, Pa.; said Meyers assignor to Armour Fertilizer Works, Chicago, Ill. Catalyst. No. 1,420,203; June 20.
MacDowell, Charles H., Chicago, Ill., H. H. Meyers and W. B. Pattison, Pittsburgh, Pa., assignors to Armour Fertilizer Works, Chicago, Ill. Oxidation of ammonia. No. 1,420,201; June 20.
MacGregor, David G., G. B. Millen, Wilmington, and J. C. W. Stanley, Santa Cruz, assignors to The Title Guarantee and Trust Company, Los Angeles, Calif. Method and apparatus for treating liquids. No. 1,420,046; June 20.
MacKewen, Watson, Detroit, Mich. Vehicle top. (Reissue.) No. 15,392; June 20.
Macklin, Frederick J., Grimsby, Ontario, Canada. Shock absorber. No. 1,420,047; June 20.
Magidson, Frank, Pittsburgh, assignor, by mesne assignments, to Davis Automatic Cradle Company, Uniontown, Pa. Spring-motor mechanism. No. 1,420,048; June 20.
Maha, Irvin J., Sleepy Eye, Minn. Mainspring-winding mechanism for motor starters. No. 1,420,120; June 20.
Mallard, Henry, and H. C. White, Stockton, assignors of one-fourth to said H. Mallard, one-fourth to F. A. Guernsey, and one-half to E. S. Munford, J. L. Craig, and W. S. Clark, Stockton, Calif. Self-starter. No. 1,420,121; June 20.
Mallard, Henry, et al. (See Mallard, H., and White, assignors.)
Malligan, Joseph, Point Marion, Pa. Spark plug. No. 1,420,565; June 20.
Mallon, James H., Atlantic City, N. J. Apparatus for the manufacture and display of beverages. No. 1,420,433; June 20.
Manchester, Seward H., Winsted, Conn. Vehicle wheel. No. 1,419,975; June 20.
Manhart, Arthur, Elizabethtown, Ill. Saw set. No. 1,420,489; June 20.
Manitowoc Plating Works. (See Wachowitz, Walter J., assignor.)
Manson, Ray H., assignor to The General Phonograph Manufacturing Company, Elyria, Ohio. Phonograph. No. 1,419,938; June 20.
Mantel, Auguste, Taylorville, Ill. Artificial arm and hand. No. 1,420,122; June 20.
Manzel, Charles W., Buffalo, N. Y. Cleaning implement for lubricating nipples. No. 1,420,123; June 20.
Margulies, Harry, New York, N. Y. Gas cock. No. 1,420,434; June 20.
Marko, Paul M., Brooklyn, N. Y. Storage battery. No. 1,420,435; June 20.
Markovich, Joseph J., Uniontown, Pa. Rail-joint chair. No. 1,420,566; June 20.
Marks, George E. and W. L., Sound Beach, Conn. Artificial foot. No. 1,420,330; June 20.
Marks, William L. (See Marks, George E. and W. L.)
Marshall, Edward C., Lynn, Mass. Traffic signal. No. 1,420,124; June 20.

Martin, Frank J., Greenfield, assignor to Martin Machine Company, Inc., Turners Falls, Mass. Diestock. No. 1,419,939; June 20.
Martin Machine Company, Inc. (See Martin, Frank J., assignor.)
Marx, Richard, Detroit, Mich. Furnace. No. 1,420,204; June 20.
Mashek, Joseph A., Oak Park, Ill. Massage apparatus. No. 1,420,049; June 20.
Mason, Ralph K., Bantam, assignor of one-half to J. H. Lancaster, Litchfield, Conn. Quick-break switch. No. 1,420,381; June 20.
Mason, Ralph K., Bantam, assignor of one-half to J. H. Lancaster, Litchfield, Conn. Quick-make and quick-break switch. No. 1,420,383; June 20.
Mathews, Annie, et al., administrators. (See Mathews, Thomas.)
Mathews, Thomas, deceased, by A. Mathews, Leicester, and H. Buckingham, London, England, administrators. Toy Punch and Judy show. No. 1,419,976; June 20.
Matranga, Vincenza, administratrix. (See Matranga, Vincenzo.)
Matranga, Vincenzo, deceased, New York, N. Y.; V. Matranga, administratrix. Confection-coating machine. No. 1,420,436; June 20.
Matthews, Charles K., Portland, Oreg. Speed-changing device. No. 1,420,272; June 20.
Matthews, Scott J., Port Clinton, Ohio. Engine lubricator. No. 1,420,125; June 20.
May, Alison, Portland, Oreg. Jar lifter. No. 1,420,273; June 20.
May, Laurence J., Indianapolis, Ind., assignor to C. E. Sargent, Rock Island, Ill. Gasifier. No. 1,420,616; June 20.
May, Sidney S. (See Weber, Paul J., assignor.)
Mayer, Elmer J., assignor to J. Schneps, New York, N. Y. Amusement device. No. 1,420,437; June 20.
Mehlhorn, Paul. (See Jaeckle, F., and Mehlhorn.)
Mehlin, Otto F., West New York, assignor to Auto Safety Device Company, Newark, N. J. Automobile lock. No. 1,420,205; June 20.
Merritt, Benjamin F., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Transfer tool for paper files. No. 1,420,050; June 20.
Metallurgical Plant Construction Company Limited. (See Lavaud, Clark, and Baines, assignors.)
Meyer, Emil C. W., Cleveland, Ohio. Nonskid device for horseshoes. No. 1,420,331; June 20.
Meyers, Herbert H. (See MacDowell, C. H., and Meyers.)
Meyers, Herbert H. (See MacDowell, C. H., Meyers, and Pattison.)
Milan, William W., Paden, Okla. Ironing board. No. 1,420,206; June 20.
Millen, George B. (See MacGregor, D. G., Millen, and Stanley.)
Miller, Benjamin F., assignor of forty-five per cent to F. L. Miller, Henderson, Tex. Brake shoe. No. 1,420,274; June 20.
Miller, Forest L. (See Miller, Benjamin F., assignor.)
Miller, Louis, Brooklyn, N. Y. Sanding machine. No. 1,420,438; June 20.
Miller, Walter F., Dayton, Ohio. Expansible core for curing automobile tires and the like. No. 1,420,490; June 20.
Miller, Walter F. (See Koenneke, H. P., and Miller.)
Mills, Mabel N., New York, N. Y. Lady's undergarment. No. 1,419,940; June 20.
Milwaukee Corrugating Company. (See Jones, Edmund H., assignor.)
Miner, Charles A., assignor to Limousine Body Company, Kalamazoo, Mich. Door and wall panel for vehicle bodies. No. 1,420,051; June 20.
Miner, Evermont B., Portland, Oreg. Tube beading or flanging machine. No. 1,420,383; June 20.
Mitelman, Leon, Chicago, Ill. Wave motor. No. 1,420,332; June 20.
Montgomery, James P., assignor of forty per cent to C. H. Brand, Moore, and ten per cent to J. G. Lindsay, Norman, Okla. Pump. No. 1,420,052; June 20.
Moody, William E., Columbus, Ohio, assignor to J. E. Jones, Switchback, W. Va. Loading machine. No. 1,420,207; June 20.
Moore, Ella L., Los Angeles, Calif. Desk book support. No. 1,420,439; June 20.
Moore, Eric C., Rochester, N. Y. Loose-leaf binder. No. 1,420,333; June 20.
Moorhouse, Thomas E., Hawthorn, Victoria, Australia. Camera applicable to aerial photography. No. 1,420,440; June 20.
Moree, Kinsel E. (See Hendrickson, R. O., and Moree.)
Morfoot, Charles E., Nevada, Iowa. Collapsible table and case. No. 1,420,126; June 20.
Morse, Louis F., Brooklyn, N. Y. Copying apparatus. No. 1,420,491; June 20.
Mosher, Charles D., New York, N. Y. Oil-burning apparatus. No. 1,420,208; June 20.
Mosher, Charles D., New York, N. Y. Furnace. No. 1,420,441; June 20.
Mosher, Joseph, Chicago, Ill. Arch support. No. 1,420,492; June 20.
Most, Lucifer J., assignor, by mesne assignments, to Pencil Products Corporation, New York, N. Y. Pencil. No. 1,420,275; June 20.
Moxham, Arthur J., New York, N. Y. Treating ore to produce pure iron. No. 1,420,127; June 20.
Moxham, Arthur J., New York, N. Y. Extracting iron from its ores. No. 1,420,128; June 20.
Moxham, Arthur J., New York, N. Y. Extracting iron from its ores. No. 1,420,129; June 20.
Moxham, Arthur J., Great Neck, N. Y. Extracting metals from their ores. No. 1,420,130; June 20.
Moyer, Jonas J., Oakland, Calif. Mouth speculum. No. 1,420,493; June 20.
Mudd, Melbourne M., Toledo, Ohio, assignor to The Nobby Manufacturing Company. Can opener. No. 1,420,442; June 20.
Mueller, Adolph, trustee. (See Eichman, Arthur W., assignor.)
Mueller, Emil M., assignor to C. P. Goerz American Optical Company, New York, N. Y. Shutter attachment for moving-picture cameras. No. 1,420,053; June 20.
Mueller, George, Salt Lake City, Utah. Wheeled oven tray or carriage. No. 1,420,567; June 20.
Mullaney, Benjamin F., assignor to J. Purdon, trustee, Boston, Mass. Garage construction. No. 1,420,494; June 20.
Munford, Edward S., et al. (See Mallard, H., and White, assignors.)
Munro, Edward M., London, England. Socket or base for trolley poles for electrically-propelled vehicles. No. 1,420,131; June 20.
Murphy, John F., assignor of one-half to H. B. Wood, Worcester, Mass. Making metal-base cutting dies. No. 1,420,276; June 20.
Myers, Edward D., Shelby, Mich. Speedometer driving gear. No. 1,420,054; June 20.
Nash, Thomas, Kamloops, British Columbia, Canada. Disk sharpener. No. 1,420,568; June 20.
National Aniline & Chemical Co. (See Lewis, Harry F., assignor.)
National Lead Company. (See Tolman, Charles P., assignor.)
National Supply Company, The. (See Wright, Clyde S., assignor.)
Nelson, Gustaf T., Beaumont, Tex. Steering mechanism. No. 1,419,977; June 20.
Némety, Joseph, Trenton, N. J. Automatically-operated railway gate. No. 1,420,132; June 20.
Nero, Arvid H., New Britain, assignor to The Arrow Electric Company, Hartford, Conn. Electric switch. No. 1,420,569; June 20.
Neuner, Clarence M., et al. (See Neuner, Martin C., assignor.)
Neuner, Martin C., assignor of one-third to C. M. Neuner and O. C. Reichert, Los Angeles, Calif. Game board. No. 1,420,334; June 20.
Neusüs, Carl H., Baker, Oreg. Acetylene miner's lamp. No. 1,420,133; June 20.
Newhall, Henry B. (See Karitzky, John, assignor.)
New Jersey Patent Company. (See Holland, Newman H., assignor.)
Nichols, Harold W., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Selective receiving system. No. 1,420,055; June 20.
Nicholson, Stanley W. (See Lawrence, J. D., and Nicholson.)
Nicolaus, Frederic G., and J. Roy, Cleveland, Ohio, assignors to American Stove Company, St. Louis, Mo. Combined gas and coal range. No. 1,420,495; June 20.
Niesen, Edward, Iron Mountain, Mo. Table. No. 1,419,978; June 20.
Nisle, Hertha J., Chicago, Ill. Cradle. No. 1,420,134; June 20.
Nobby Manufacturing Company. (See Mudd, Melbourne M., assignor.)
Oberlander, Chalmer L., Bucyrus, Ohio. Key holder. No. 1,420,335; June 20.
Ogden, John E., Cornwall, N. Y. Expansion anchorage. No. 1,419,979; June 20.
O'Hara, James, Lebanon, Oreg. Paper machine. No. 1,420,135; June 20.
Ohm, Herman C., Terre Haute, Ind. Folding fan. No. 1,420,496; June 20.
Oil Well Supply Company. (See Greve, Edgar E., assignor.)
Olin, Franklin W., Alton, Ill., assignor to Western Cartridge Company. Wad bushing for loading machines. No. 1,419,941; June 20.
Oliver, Herbert G., New York, N. Y. Reel for photographic films. No. 1,420,056; June 20.
O'Neill, Frank, Jr., Philadelphia, Pa. Fibrous plant decorticating machine. No. 1,420,136; June 20.
O'Reilly, John J., Brooklyn, N. Y. Pipe-bending device. No. 1,420,336; June 20.
Ortman, William H. (See Ely, George B., assignor.)
Ostrander, Louise M. (See Kinney, Charles, assignor.)
Owen, Harry E., Muncie, Ind. Light-shading device. No. 1,420,443; June 20.
P-A-T-S Manufacturing Company. (See Will, Victor R.)
Packer, Mortimer L., Columbus, Ohio. Fuel mixer. No. 1,420,277; June 20.
Pagé, Victor W., New York, N. Y. Pinion-shaft housing. No. 1,420,497; June 20.
Palma, Frederic J., Denver, Colo., assignor to The Universal Coal Machine Company, Phoenix, Ariz. Rock-cutting machine. No. 1,419,980; June 20.

Palmer, George H., assignor to Dail Steel Products Company, Lansing, Mich. Disk wheel. No. 1,420,337; June 20.
Parker, Benjamin L., Moscow, Iowa. Device for operating camera shutters. No. 1,420,137; June 20.
Parker, James W., Harrow, England. Automobile producer-gas plant. No. 1,420,570; June 20.
Parrish, Stephen E. (See Vanderveld, Anthony, assignor.)
Parsons, Charles A., A. Q. Carnegie, and M. Bone, Newcastle-upon-Tyne, England; said Carnegie and said Bone assignors to said Parsons. Manufacture of blading for turbines. No. 1,420,278; June 20.
Parsons, Charles A., A. Q. Carnegie, and M. Bone, Newcastle-upon-Tyne, England; said Carnegie and said Bone assignors to said Parsons. Manufacture of blading for turbines. No. 1,420,338; June 20.
Parsons, Frank E., Dorchester, and W. M. Robinson, Weston, Mass.; said Parsons assignor to said Robinson. Wrench handle. No. 1,420,279; June 20.
Parsons, Harry N., assignor to U. S. Ball Bearing Manufacturing Company, Chicago, Ill. Antifriction bearing. No. 1,420,339; June 20.
Patrick, Theodore L., Paw Paw, Ill. Window-sash balance. No. 1,420,280; June 20.
Pattison, Warren B. (See MacDowell, C. H., Meyers, and Pattison.)
Paulus, Herman W., Richmond Hill, N. Y., assignor to Royal Baking Powder Company. Manufacturing hydrochloric acid and carbon monoxide. No. 1,420,209; June 20.
Paulus, Herman W., Richmond Hill, N. Y., assignor to Royal Baking Powder Company. Apparatus for use in effecting chemical reactions. No. 1,420,210; June 20.
Paulus, Herman W., Richmond Hill, N. Y., assignor to Royal Baking Powder Company. Apparatus for effecting chemical reactions. No. 1,420,211; June 20.
Paulus, Herman W., Richmond Hill, N. Y., assignor to Royal Baking Powder Company. Method of and apparatus for electrolytic reduction and oxidation. No. 1,420,212; June 20.
Paulus, Herman W., Richmond Hill, N. Y., assignor to Royal Baking Powder Company. Manufacture of oxalate. No. 1,420,213; June 20.
Payne, Jacob, Beatrice, Nebr. Reenforced-concrete pole. No. 1,420,571; June 20.
Payne, Lee H., Chicago, Ill. Bottle crate. No. 1,420,444; June 20.
Pearson, Carl E., Lansing, Mich. Igniting apparatus. No. 1,420,340; June 20.
Peck, Wilbur H., Los Angeles, Calif. Separating mixed mineral particles of different degrees of specific gravity. No. 1,420,138; June 20.
Peck, Wilbur H., Los Angeles, Calif. Differential flotation separator. No. 1,420,139; June 20.
Peleskey, Andrew, Martins Ferry, Ohio. Fencepost. No. 1,420,140; June 20.
Pencil Products Corporation. (See Most, Lucifer J., assignor.)
Penland, William B., Vallejo, Calif. Folding camp table. No. 1,420,057; June 20.
Pennewell, John F. (See Edwards, William H., assignor.)
Pennington, John K., Los Angeles, Calif. Flue cap. No. 1,420,141; June 20.
Pennington, John K., Los Angeles, Calif. Ventilator cap. No. 1,420,142; June 20.
Perot, Edward S. (See Thompson, Olof, assignor.)
Perri, Angelo, Watertown, assignor to Reece Shoe Machinery Company, Boston, Mass. Lasting machine. No. 1,420,572; June 20.
Perri, Angelo, Watertown, assignor to Reece Shoe Machinery Company, Boston, Mass. Wiping mechanism. No. 1,420,573; June 20.
Perri, Angelo, Watertown, assignor to Reece Shoe Machinery Company, Boston, Mass. Wiping mechanism. No. 1,420,574; June 20.
Peters, James A., The White House, near Scarborough, England. Motor cycle. No. 1,420,498; June 20.
Peterson, Palmer M. (See Ehrman, B., Johanson, and Peterson.)
Pfeifer, George E. (See Budde, William, assignor.)
Phoenix Horse Shoe Company. (See Boone, Enoch, assignor.)
Pierce, William L., New York, N. Y. Friction-clutch mechanism. No. 1,420,214; June 20.
Pierini, Humbert, assignor to R. B. McMahon, Greenville, Miss. Trap. No. 1,420,384; June 20.
Pihl, Carl J. (now by judicial change of name C. J. Piel), Boston, Mass. Friction device. No. 1,420,281; June 20.
Pike, Charles, Brooklyn, N. Y. Lock. No. 1,420,215; June 20.
Pittsburgh Transformer Company. (See Bingay, Robert V., assignor.)
Pittsburgh Transformer Company. (See Horelick, Samuel, assignor.)
Place, Claude W., La Grange, Ill., assignor to General Electric Company. System of electrical distribution. No. 1,420,385; June 20.
Plummer, Charles T. (See Baldwin, W. H., and Plummer.)
Pohl, Adolph. (See Schulze, Louis H., assignor.)
Polk, Ralph B., Greenwood, Ind. Tool for sectionalizing citrus fruits. No. 1,420,341; June 20.
Pomilio Brothers Corporation. (See Rebuffat, Orazio, assignor.)
Pope, Joseph H., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Nail. No. 1,419,981; June 20.
Postel-Vinay, Pierre J. R., assignor to Societe Des Monteurs Salmson (Systeme Canton-Unne), Paris, France. Compression-relief system for star-shaped engines. No. 1,420,282; June 20.
Pressed Steel Car Company. (See Lockwood, Burns D., assignor.)
Prichard, Robert H., Los Angeles, Calif. Canteen holder. No. 1,420,143; June 20.
Prichard, Robert H., Los Angeles, Calif. Luggage carrier. No. 1,420,445; June 20.
Pry, David A., Walnut, Pa. Rail. No. 1,420,216; June 20.
Pugh, Charles H., Limited. (See Bull, George F., assignor.)
Purdon, James, trustee. (See Mullaney, Benjamin F., assignor.)
Pye, Thomas P., Graton, Calif. Drier. No. 1,420,144; June 20.
Randlett, Willie O., Richmond, Va., assignor of one-half to C. B. Buchanan. Device for cleaning flume gratings. No. 1,420,283; June 20.
Rappeline, Theresa M., Bridgeport, Conn. Sanitary tray for high chairs. No. 1,420,061; June 20.
Rastetter, William C., Fort Wayne, Ind. Steering wheel. No. 1,420,446; June 20.
Rayner, Herbert, Louisville, Ky. Electric combination lock. No. 1,420,575; June 20.
Rebuffat, Orazio, Naples, Italy, assignor to Pomilio Brothers Corporation, New York, N. Y. Refractory silica brick and manufacture. No. 1,420,284; June 20.
Reece Shoe Machinery Company. (See Perri, Angelo, assignor.)
Reece Shoe Machinery Company. (See Schoenky, August R., assignor.)
Reed, Benjamin E., Ridgely, Md., and J. E. Clippinger, Philadelphia, Pa. Tractor plow. No. 1,420,576; June 20.
Reedy, John H., Hamilton, Ohio. Paper-roll mounting. No. 1,419,982; June 20.
Reedy, John H., Hamilton, Ohio. Paper-roll mounting. No. 1,419,983; June 20.
Rees, Frank W., assignor to H. H. Welbon, Seattle, Wash. Adjustable auto mirror. No. 1,420,145; June 20.
Rees, Frederick J., London, England. Window of road vehicles. No. 1,420,617; June 20.
Reese, William C., Hayes Center, Nebr. Pump jack. No. 1,419,984; June 20.
Rehak, Hans, Vienna, Austria. Hydraulic carriage-lifting jack. No. 1,420,146; June 20.
Rehn, Edward H., and E. A. Tousley, Lima, Ohio. Household pounding block. No. 1,420,577; June 20.
Reichert, Oscar C. (See Neuner, Martin C., assignor.)
Reichstein, Walter, Berlin, Germany. Safety padlock. No. 1,420,578; June 20.
Reickert, Otto J., Springfield, Mass. Vehicle headlight. No. 1,419,942; June 20.
Reinhold, John J., Marietta, Pa. Coin wrapper. No. 1,420,285; June 20.
Reisfeld, Louis, assignor of one-half to F. Deutsch, Chicago, Ill. Sausage-linking machine. No. 1,419,985; June 20.
Rew, Leslie L. (See Lewis, J. A., and Rew.)
Richard, Joseph A., Southbridge, Mass. Connection for knife handles and blades. No. 1,420,342; June 20.
Richards, Francis H., Hartford, Conn. Expansion joint. No. 1,420,217; June 20.
Richards, Mikel T., Bristol, Tenn. Device for holding lumber to be cut. No. 1,420,218; June 20.
Richardson, Talbert N. (See Williamson, E. H., and Richardson.)
Richardson, William D., assignor to Swift & Company, Chicago, Ill. Catalyzer and producing the same. No. 1,419,986; June 20.
Richmond, Howard B. (See Althaus, Walter G., assignor.)
Richter, Herman F., Los Angeles, Calif. Pneumatic-tire vale. No. 1,420,499; June 20.
Rintoul, Harry E., Sheepshead Bay, N. Y. Attachment for grinding machines. No. 1,420,286; June 20.
Roat, Augustus M., Williamsport, Pa. Shovel cleaner. No. 1,419,987; June 20.
Roberts, Charles C., Ansonia, Conn. Self-supporting clamp. No. 1,420,147; June 20.
Roberts, Jacob M., Norfolk, Va. Signaling apparatus. No. 1,420,618; June 20.
Robins, Howard F., Cedar Rapids, Iowa. Pipe wrench. No. 1,420,058; June 20.
Robins, James E., and W. S. Slack, Hagersville, Ontario, Canada. Diaphragm for sound boxes. No. 1,419,943; June 20.
Robinson, Walter M. (See Parsons, F. E., and Robinson.)
Rock, George L., Waukesha, Wis. Strap and fastener. No. 1,420,148; June 20.
Rohrer, John M., Orwigsburg, Pa. Oil can. No. 1,419,988; June 20.
Rombough, Charles E., Long Beach, Calif. Hatpin. No. 1,420,500; June 20.
Root, Walter E., Seattle, Wash. Vehicle signal. No. 1,420,343; June 20.
Rose, Marshall O., Oregon City, Oreg. Clockworks. No. 1,420,447; June 20.

Rosenthal, Leon W. (See Kuehn, G. F., and Rosenthal.)
Roslund, Nels P., Macworth, Saskatchewan, Canada. Animal-releasing device. No. 1,419,989; June 20.
Ross, Isidor B., assignor to Elizabeth Berlston, New York, N. Y. Adjustable tip for corset and shoe laces. No. 1,420,219; June 20.
Roth, John R., Flint, Mich. Means for supporting rear-axle assemblies. No. 1,420,386; June 20.
Roth, Louis, assignor to Sterling Bronze Company, New York, N. Y. Aisle-illuminating means. No. 1,420,059; June 20.
Roux, Emile V., Marseilles, France. Building element or block. No. 1,420,220; June 20.
Rowe, John, Casey, Iowa. Traction and antiskid device. No. 1,420,149; June 20.
Roy, Joseph. (See Nicolaus, F. G., and Roy.)
Royal Baking Powder Company. (See Paulus, Herman W., assignor.)
Royal Typewriter Company. (See Dowd, Bernard J., assignor.)
Rubin, Adolph, assignor to Sieber Products Mfg. Co., St. Louis, Mo. Corrugating machine. No. 1,420,060; June 20.
Rubsam, Charles F., Brooklyn, N. Y. Vehicle wheel. No. 1,420,448; June 20.
S. Howes Co. Inc. (See Barbeau, M. L., and Weber, assignors.)
Sadler, F. H., Company, The. (See Sadler, Louis E., assignor.)
Sadler, Louis E., assignor to The F. H. Sadler Company, Attleboro, Mass. Display easel. No. 1,419,944; June 20.
Safetee Glass Company. (See Shuman, Frank, assignor.)
Salvo, Alfred L., Augusta, Ga. Flying toy. No. 1,420,449; June 20.
Sanderson, Roy, Kenmore, Ohio. Method of and apparatus for making rubber nipples. No. 1,420,287; June 20.
Sands, Walter, Minneapolis, Minn. Hat holder. No. 1,419,945; June 20.
Sanford, Hugh W., Knoxville, Tenn. Wheel. No. 1,420,221; June 20.
Sargent, Charles E. (See May, Laurence J., assignor.)
Sauvage, William H., Flushing, N. Y. Hand brake. No. 1,420,150; June 20.
Sauvage, William H., Flushing, N. Y. Hand brake. No. 1,420,151; June 20.
Sauvage, William H., Flushing, assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Slack adjuster. No. 1,420,152; June 20.
Scalco, Joseph, Crowley, La. Auxiliary air feed for explosive engines. No. 1,420,288; June 20.
Schaedle, Leo J., Pittsburgh, Pa. Desuperheater. No. 1,420,344; June 20.
Schaefer, Thomas H., St. Louis, Mo. Front-wheel drive mechanism. No. 1,420,387; June 20.
Schaffer Engineering & Equipment Co. (See Schaffer, John C., assignor.)
Schaffer, John C., Tiffin, Ohio, assignor to Schaffer Engineering & Equipment Co., Pittsburgh, Pa. Feeder. No. 1,419,946; June 20.
Schaffer, John C., Tiffin, Ohio, assignor to Schaffer Engineering & Equipment Co., Pittsburgh, Pa. Hydration apparatus. No. 1,420,153; June 20.
Scheuer, Ralph I., Two Rivers, Wis. Type case. No. 1,420,154; June 20.
Schmidt, Arno, Hayward, Calif. Can-filling machine. No. 1,420,222; June 20.
Schmidt, Ernest E., Blanton, Fla. Ink. No. 1,420,289; June 20.
Schmitt, Frederick F., Philadelphia, Pa. Mattress. No. 1,420,450; June 20.
Schneidenbach, Emil M., Friedrichshagen, near Berlin, Germany. Driving mechanism for water craft. No. 1,420,579; June 20.
Schneps, Joseph. (See Mayer, Elmer J., assignor.)
Schoenky, August R., Somerville, assignor to Reece Shoe Machinery Company, Boston, Mass. Sewing machine. No. 1,420,580; June 20.
Schofield, George L., Kansas City, Mo. Auxiliary control for motor vehicles. No. 1,420,290; June 20.
Schoneman, Herman F., Chicago, Ill. Combination toothbrush. No. 1,420,581; June 20.
Schouten, John C., Kansas City, Mo. Chair. No. 1,419,947; June 20.
Schulze, Louis H., assignor of three-fifths to A. Pohl, Grovedale, via Geelon, Victoria, Australia. Clamp principally for colter adjustments. No. 1,420,451; June 20.
Schumacher, Paul A. (See Kligge, Albert, assignor.)
Schworm, Edward F., Beach City, Ohio. Rotary toothbrush. No. 1,420,388; June 20.
Scofield, Lillian E. (See Fay, Nellie L., assignor.)
Scott, Charles E., Sausalito, Calif. Tread for rails and wheels. No. 1,420,389; June 20.
Scott, Robert W., Spokane, Wash. Saw handle. No. 1,420,291; June 20.
Secqueville, Alfred E. L., assignor to Societe Anonyme des Anciens Etablissements Secqueville and Hoyau, Gennevilliers, Seine, France. Bonnet frame for automobile vehicles. No. 1,420,292; June 20.
Sellars, Sidney L., Philadelphia, Pa. Cleaning device. No. 1,419,948; June 20.
Service Engineering Company, The. (See Bennett, Charles E., assignor.)
Sharp, David C., and W. R. Diehl, Pittsburgh, Pa. Driving lamp for vehicles. No. 1,419,949; June 20.
Shaw, Edward C., Galesburg, Ill., assignor, by mesne assignments, to Shaw, Welsh & Company. Stock feeder. No. 1,419,950; June 20.
Shaw, Welsh & Company. (See Shaw, Edward C., assignor.)
Shea, Robert, Martell, Calif. Cradle rocker. No. 1,420,582; June 20.
Shearer, John A., Millswood Estate, South Australia, Australia. Fan. No. 1,420,155; June 20.
Shiffner, Roscoe B. (See Hermelink, H., Jr., and Shiffner.)
Shoppe, Frank L., Passaic, E. G. Hedges, Newark, and W. W. Heroy, Bloomfield, N. J. Flush-tank valve. No. 1,420,452; June 20.
Shorday, Walter W., Lawndale, Pa. Handle for paper containers. No. 1,420,453; June 20.
Shuman, Frank, deceased; Y. J. Shuman and C. H. Dunker, administrators, assignors to L. J. Kolb, Philadelphia, Pa., trading as Safetee Glass Company. Danger signal. No. 1,420,345; June 20.
Shuman, Y. Josephine, et al., administrators. (See Shuman, Frank.)
Sieber Products Mfg. Co. (See Rubin, Adolph, assignor.)
Simons, Abraham, New York, N. Y. Diamond die and making same. No. 1,420,223; June 20.
Simons, Abraham, New York, N. Y. Making diamond dies. No. 1,420,224; June 20.
Simons, Edward E., assignor, by mesne assignments, to Convertible Clock Case Company, Inc., Allentown, Pa. Clock mounting. No. 1,420,583; June 20.
Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)
Skeels, William C., Oklahoma, Okla. Journal box. No. 1,420,156; June 20.
Skinner, Bronson C., assignor to Skinner Machinery Company, Dunedin, Fla. Polishing apparatus. No. 1,420,062; June 20.
Skinner, Lewis B., Denver, Colo. Mechanical rabble device. No. 1,420,501; June 20.
Skinner Machinery Company. (See Skinner, Bronson C., assignor.)
Slack, William S. (See Robins, J. E., and Slack.)
Smith, Agnes M., Rochester, N. Y. Skirt. No. 1,419,990; June 20.
Smith, Bernard W., Bradford, Vt. Reverse pulley for machine tools, elevators, etc. No. 1,420,502; June 20.
Smith, George L., and D. F. Asbury, Washington, D. C. Tank closure. No. 1,420,063; June 20.
Smith, Hampton M., Greenville, S. C. Loom harness stop motion. No. 1,420,390; June 20.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,419,991; June 20.
Smith, John W., West Carthage, N. Y. Attachment for paper-machine driers. No. 1,420,454; June 20.
Smith, Martin E., Corvallis, Oreg. Receptacle. No. 1,420,293; June 20.
Smith, Oberlin, Bridgeton, N. J. Toy. No. 1,420,584; June 20.
Smutz, George W., San Jose, Calif. Amusement device. No. 1,420,225; June 20.
Snelling, Walter O., Allentown, Pa. Photochemical process. No. 1,420,346; June 20.
Snoeck, Richard, New York, N. Y. Curtain. No. 1,420,455; June 20.
Snyder, Roy Z., Seattle, Wash. Can opener. No. 1,420,456; June 20.
Societe Anonyme Des Anciens Etablissements, Secqueville and Hoyau. (See Secqueville, Alfred E. L., assignor.)
Societe Des Moteurs Salmson (Systeme Canton-Unne). (See Postel-Vinay, Pierre J. R., asignor.)
Societe du Carburateur Zenith. (See Taylor, Richard H., assignor.)
Sparks, William B., Cincinnati, Ohio. Ring-oiled gland. No. 1,420,585; June 20.
Spencer, Frank A., West Orange, N. J. Device for raising and supporting covers. No. 1,420,347; June 20.
Spencer, John A., Long Beach, Calif. Lead-joint runner. No. 1,420,586; June 20.
Sperlich, Herman A., Highland Park, assignor to Crystal Washing Machine Company, Detroit, Mich. Wringer support. No. 1,420,157; June 20.
Stanfield, James F., Troy, Ohio. Resilient filler. No. 1,420,158; June 20.
Stanley, John C. W. (See MacGregor, D. G., Millen, and Stanley.)
Steckenreiter, Frank J. (See Steckenreiter, John F. and F. J.)
Steckenreiter, John F. and F. J., Brooklyn, N. Y. Window construction. No. 1,420,457; June 20.
Stein, A., & Company. (See Elliott, Alexander D., assignor.)
Stein, A., & Company. (See Gavitt, Arthur W., assignor.)
Steinmetz, Herman, Rochester, N. Y. Sheet-feeding machine. No. 1,420,458; June 20.
Stephenson, Robert F., Augusta, Kans. Spark plug. No. 1,420,159; June 20.
Sterling Bronze Company. (See Roth, Louis, assignor.)
Stewart, William, Newark, N. J. Lifeboat. No. 1,420,459; June 20.
Stiles, John C., St. Louis, Mo. Device for smoothing sheet metal. No. 1,420,064; June 20.

Stillman, Chauncey F., North Bergen, N. J. Buffer for amusement cars. No. 1,420,065; June 20.
Straw, U. D., Goshen, Ind. Electric heater. No. 1,420,160; June 20.
Streibel, Ludwig, assignor of one-half to A. Ehresmann, Karlsruhe, Germany. Apparatus for channeling sole blanks. No. 1,420,161; June 20.
Sullivan, Harold L. (See Dunlap, Forrest B., assignor.)
Sullivan, William E., Jacksonville, Ill. Turnbuckle. No. 1,420,460; June 20.
Sunden, Carl G., Chicago, Ill. Automobile tire pump. No. 1,420,587; June 20.
Swan Hunter & Wigham Richardson Limited. (See Childs, J., and Evans, assignors.)
Swanson, Adolf A., Everett, Mass. Stair structure. No. 1,420,294; June 20.
Sweet, Oscar, Schenectady, N. Y. Refuse receptacle. No. 1,420,391; June 20.
Swift & Company. (See Richardson, William D., assignor.)
Swift, Lewis B., assignor to Taylor Instrument Companies, Rochester, N. Y. Controlling mechanism. No. 1,420,348; June 20.
Szabo, Alex, Perth Amboy, N. J. Apparatus for use in shoeing horses. No. 1,420,349; June 20.
Szczurek, Joe, Chicago Heights, Ill. Extension steps. No. 1,419,992; June 20.
Tabler, John H., Washington, D. C. Belt fastener. No. 1,420,588; June 20.
Tabucchi, Dario, Nice, France. Dough press. No. 1,420,066; June 20.
Tait, Robert W., New York, N. Y. Combined knob and dial for radio apparatus. No. 1,420,295; June 20.
Talbott, Arthur L., Des Moines, Iowa. Support for pencil sharpeners. No. 1,420,589; June 20.
Tani, Salvatore. (See Giandalia, Salvatore, assignor.)
Taute, Albert L., Mora, Minn. Radiator. No. 1,420,590; June 20.
Taylor, Clarence, Newport, R. I. Pneumatic-tire protector. No. 1,420,392; June 20.
Taylor, Henry H. (See Hammond, M. B., and Taylor.)
Taylor Instrument Companies. (See Swift, Lewis B., assignor.)
Taylor, Richard H., Detroit, Mich., assignor to Societe du Carburateur Zenith, Lyon, France. Carburetor. No. 1,419,993; June 20.
Taylor, Thomas P., Co., The. (See Hammond, M. B., and Taylor, assignor.)
Teehan, John F., Brockton, Mass. Footwear. No. 1,420,461; June 20.
Texas Gulf Sulphur Company. (See Bacon, R. F., and Davis, assignors.)
Thatcher, Martin F. (See Wikel, H. S., and Thatcher.)
Thelen, Rolf, Madison, Wis. Drying kiln. No. 1,420,296; June 20.
Thiele, Adolph A., Omaha, Nebr., assignor to American Smelting and Refining Company, New York, N. Y. Trolley reel. No. 1,420,350; June 20.
Thomas, Arthur R. (See Benoist, Frank O., assignor.)
Thomas, Elmer R., Davenport, Iowa. Steering wheel. No. 1,420,462; June 20.
Thomes, Frank E., Portland, Me. Convertible woodworking machine. No. 1,420,591; June 20.
Thompson, John G., London, Ontario, Canada. Straw holder. No. 1,420,297; June 20.
Thompson, Olof, New York, assignor to E. S. Perot, Yonkers, N. Y. Alternating-current relay. No. 1,420,067; June 20.
Thornton, Arthur C., assignor to The Blackburn Aeroplane & Motor Company Limited, Leeds, England. Mechanism carried by aircraft for adjusting torpedoes. No. 1,420,592; June 20.
Throne, Penn L., Harrisburg, Pa. Combination automatic window lock, balance, and lift. No. 1,420,503; June 20.
Titchmarsh, John E., Silver Creek, N. Y. Separating machine. No. 1,420,593; June 20.
Title Guarantee and Trust Company, The. (See MacGregor, D. G., Millen, and Stanley, assignors.)
Toles, Justin K., San Francisco, Calif. Apparatus for fiberizing and felting cereal straw. No. 1,420,162; June 20.
Tolman, Charles P., New Rochelle, assignor to National Lead Company, New York, N. Y. Shipping receptacle. No. 1,420,463; June 20.
Topham, Laurence E., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Wax-thread sewing machine. No. 1,419,994; June 20.
Tousley, Elton A. (See Rehn, E. H., and Tousley.)
Trent Process Corporation. (See Trent, Walter E., assignor.)
Trent, Walter E., Washington, D. C., assignor to Trent Process Corporation, Wilmington, Del. Cleaning coal. No. 1,420,163; June 20.
Trent, Walter E., assignor to Trent Process Corporation, Washington, D. C. Purifying materials. No. 1,420,164; June 20.
Trent, Walter E., assignor to Trent Process Corporation, Washington, D. C. Purifying materials. No. 1,420,165; June 20.
Treyn Brassert & Company. (See Weinel, Karl, assignor.)
Troop Manufacturing Company. (See Beler, Adolf, assignor.)
Trost, Henry C., El Paso, Tex. Building construction. No. 1,419,995; June 20.
Trost, Robert, San Francisco, Calif. Method and means for constructing forms for concrete. No. 1,420,166; June 20.
Twining, Frank B., assignor to Geo. P. Ide & Company, Inc., Troy, N. Y. Multiply interwoven fabric for collars and cuffs. No. 1,420,504; June 20.
U. S. Ball Bearing Manufacturing Company. (See Dlesk, John, assignor.)
U. S. Ball Bearing Manufacturing Company. (See Parsons, Harry N., assignor.)
U. S. Industrial Alcohol Co. (See Backhaus, Arthur A., assignor.)
U. S. Industrial Alcohol Co. (See Whitaker, Milton C., assignor.)
Underwood Typewriter Company. (See Keene, Wendell P., assignor.)
Underwood Typewriter Company. (See Smith, Jesse A. B., assignor.)
United Shoe Machinery Corporation. (See Knight, Ralph F., assignor.)
United Shoe Machinery Corporation. (See Pope, Joseph H., assignor.)
United Shoe Machinery Corporation. (See Topham, Laurence E., assignor.)
United States Cast Iron Pipe & Foundry Company. (See Ladd, James B., assignor.)
Universal Coal Machine Company, The. (See Palma, Frederic J., assignor.)
Valois, Félix E., Haverhill, assignor to Hamel Shoe Machinery Company, Lynn, Mass. Take-up motion. No. 1,419,996; June 20.
Valois, Félix E., Haverhill, assignor to Hamel Shoe Machinery Company, Lynn, Mass. Looper mechanism for shoe-sewing machines. No. 1,419,997; June 20.
Valois, Félix E., Bridgeport, Conn., assignor to Hamel Shoe Machinery Company. Shoe, making same, and shoe-part fastener. No. 1,419,998; June 20.
Vanderveld, Anthony, assignor of one-half to S. E. Parrish, Grand Rapids, Mich. Measuring and computing machine. No. 1,420,612; June 20.
Van Valkenburg, Burt R. (See Van Valkenburg, Harold A. and B. R.)
Van Valkenburg, Harold A. and B. R., Oakland, Calif. Automatic record rewind and replay mechanism for piano players. No. 1,420,594; June 20.
Villa, Ludwig D. (See Cigol, F. A., and Villa.)
Villarreal, Enrique, New York, N. Y. Knife-wiping attachment for type-casting machines. No. 1,420,595; June 20.
Visitacion, Aniceto R., Brooklyn, N. Y. Toy. No. 1,420,505; June 20.
Vogel, Floyd, Hackettstown, N. J. Cutter head and gauge. No. 1,420,068; June 20.
Vogt, Agnes, geb. Szubert, assignor to Galvanophoren-Werke (System Vogt) S. Szubert, Commandit-Gesellschaft, Berlin, Germany. Electric pocket lamp. No. 1,420,167; June 20.
Voight, Henry G., New Haven, Conn. Locking device for tire carriers. No. 1,420,226; June 20.
Von Czerweny, Victor, Deutschlandsberg, and E. Blümel, St. Polten, Austria. Matchmaking machine. No. 1,419,999; June 20.
Vordermark, George, Indianapolis, Ind. Resilient vehicle wheel. No. 1,420,393; June 20.
Voress, Clyde L., New York, N. Y., and V. C. Canter, Bradford, Pa., assignors to Gasoline Recovery Corporation. Volatilizing, distilling, or separating absorbed vapors. No. 1,420,613; June 20.
Wachowitz, Walter J., assignor to Manitowoc Plating Works, Manitowoc, Wis. Machine for ironing milk cans. No. 1,420,506; June 20.
Wacker, Dr. Alexander, für Electrochemische Industrie, G. m. b. H. (See Kaufler, Felix, assignor.)
Wagner, Augusta H., et al., administrators. (See Wagner, John.)
Wagner, Herbert H., et al., administrators. (See Wagner, John.)
Wagner, Herbert H., Rochester, N. Y. Pasteboard box and wrapper. No. 1,420,000; June 20.
Wagner, John, deceased, by A. H. Wagner and H. H. Wagner, administrators, Rochester, N. Y. Folding pasteboard box. No. 1,420,001; June 20.
Wagner, Joseph F., assignor to The Dunham Company, Berea, Ohio. Soil-pulverizing implement. No. 1,420,351; June 20.
Wagner, Mangold, Seattle, Wash. Velocipede propelling mechanism. No. 1,420,394; June 20.
Waite, Harry F., New York, N. Y. Vertical fluoroscopic unit. No. 1,420,395; June 20.
Waldron, Horace S., Savannah, Ga. Device for applying piston rings. No. 1,420,507; June 20.
Walker, James L., Union, Utah. Fish screen. No. 1,420,508; June 20.
Walker, James A., Lafollette, Tenn. Rail tie plate. No. 1,420,168; June 20.
Wallace, George, assignor of one-half to H. Bolton, Sheffield, England. Welded joint for tramways and light railways. No. 1,420,614; June 20.
Walter, Harrison B., Philadelphia, Pa., assignor to Fibre Container Company. Multiple stapling machine. No. 1,420,227; June 20.
Walters, Frank L. (See Bush, Carl, assignor.)
Warren, George T., Sr., Charleston, S. C. Fish net. No. 1,420,396; June 20.

Watkins, Guy S. S., Daviot, Scotland. Spinning bait for fishing purposes. No. 1,420,228; June 20.
Wear, Frank F., Montara, Calif. Display bin. No. 1,420,069; June 20.
Weaver, Robert R., assignor to General American Tank Car Corporation, Chicago, Ill. Underframe for cars. No. 1,420,352; June 20.
Weber, Frederick S. (See Barbeau, M. L., and Weber.)
Weber, Paul J., Kansas City, assignor of one-half to S. S. May, St. Louis, Mo. Auxiliary air inlet device for internal-combustion engines. No. 1,420,615; June 20.
Webster, George O. (See Webster, William S. and G. O.)
Webster, Hyleman A., Columbia, Tenn. Fertilizer and making the same. No. 1,420,596; June 20.
Webster, William S. and G. O., Chicago, Ill. Ventilator. No. 1,420,002; June 20.
Wegman, Jordan, Creve Couer, Mo. Liquid-fuel burner. No. 1,420,003; June 20.
Weide, Hans, Brooklyn, N. Y. Holder for talking-machine records. No. 1,420,004; June 20.
Weinel, Karl, assignor to Treyn Brassert & Company, Chicago, Ill. Chimney valve. No. 1,420,397; June 20.
Welbon, Hugh H. (See Rees, Frank W., assignor.)
Welch, James S., Houston, Tex. Mop. No. 1,420,169; June 20.
Welch, Louis A., Camden, N. J. Temporary rail joint. No. 1,420,070; June 20.
Werle, Philip. (See Bye, K., and Werle.)
Western Electric Company. (See Goodrum, Charles L., assignor.) (Reissue.)
Western Cartridge Company. (See Olin, Franklin W., assignor.)
Western Electric Company. (See Merritt, Benjamin F., assignor.)
Western Electric Company Incorporated. (See Nichols, Harold W., assignor.)
Westinghouse Electric & Manufacturing Co. (See Hodgkinson, Francis, assignor.)
Weston, Alonzo H., Buffalo, and J. Zilliox, Orchard Park, N. Y., assignor, by mesne assignments, to The Diaphone Signal Company, Limited, Toronto, Ontario, Canada. Key bolt. No. 1,420,005; June 20.
Whitaker-Glessner Company. (See Day, Edgar K., assignor.)
Whitaker, Milton C., New York, N. Y., assignor to U. S. Industrial Alcohol Co. Internal-combustion-engine fuel. No. 1,420,006; June 20.
Whitaker, Milton C., New York, N. Y., assignor to U. S. Industrial Alcohol Co. Fuel for internal-combustion engines. No. 1,420,007; June 20.
White, Charles E., and G. Carlson, assignors to Deere & Company, Moline, Ill. Planting mechanism. No. 1,420,170; June 20.
White, Harold C. (See Mallard, H., and White.)
White, Herbert R., Portsmouth, England. Convertible motor-car body. No. 1,420,298; June 20.
White, James A., Galt, Ontario, Canada. Direction indicator. No. 1,420,353; June 20.
Wikel, Henry S., and M. F. Thatcher, York, Pa. Apparatus for preparing stock food. No. 1,420,008; June 20.
Will & Baumer Company. (See Kreuzer, William C., assignor.)
Will, Victor R., assignor to P-A-T-S Manufacturing Company, Lodi, Calif. Direction signal for motor vehicles. No. 1,420,299; June 20.
Wille, Walter O., Waterloo, Iowa. Lathe-tool holder. No. 1,420,171; June 20.
William Carter Company. (See Drumheller, William P., assignor.)
Williams, Mae R., St. Louis, Mo. Toy. No. 1,420,597; June 20.
Williams, Milton F., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Crusher and pulverizer. No. 1,420,354; June 20.
Williams, Milton F., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Bar cages for grinders. No. 1,420,355; June 20.
Williams Patent Crusher and Pulverizer Company. (See Davidson, William M., assignor.)
Williams Patent Crusher & Pulverizer Company. (See Gillespie, Alexander, assignor.)
Williams Patent Crusher & Pulverizer Company. (See Williams, Milton F., assignor.)
Williamson, Edward H., and T. N. Richardson, Philadelphia, Pa.; said Richardson assignor to said Williamson. Lunch kit. No. 1,420,598; June 20.
Williamson, Frank E., Glasco, Kans. Alternating rotary gearing. No. 1,420,599; June 20.
Wilson, Byron E., assignor to The Eymon Crossing Company, Marion, Ohio. Railway crossing. (Reissue.) No. 15,391; June 20.
Wilson, Frederick D., Moline, Ill. Rotary engine. No. 1,420,009; June 20.
Wilson, Loran J., Jonesville, Va. Trap. No. 1,420,229; June 20.
Wilson, Walter E., Paxico, Kans. Carburetor. No. 1,420,356; June 20.
Winkler, Carl, Berne, Switzerland. Mold for casting stereotype plates. No. 1,420,464; June 20.
Winkler, Christian, Portland, Oreg. Key-seating machine. No. 1,420,600; June 20.
Wise-McClung Manufacturing Company. (See Wise, W. J., and Adams.)
Wise, William J., and T. O. Adams, assignors to The Wise-McClung Manufacturing Company, New Philadelphia, Ohio. Vacuum cleaner. No. 1,420,172; June 20.
Wood, Hamilton B. (See Murphy, John F., assignor.)
Woodward Machine Company. (See Brock, Richard E., assignor.)
Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Elevator. No. 1,420,010; June 20.
Wright, Jacob H., Louisville, Ky. Plant-dusting machine. No. 1,420,601; June 20.
Wright, Wilbur L., Fulton, N. Y. Paper material and composition for treating the same. No. 1,420,173; June 20.
Wroughton, Ernest G., Nelson, Nebr. Attachment for tractors. No. 1,420,174; June 20.
Wujek, Martin J., assignor to Hard Mfg. Co., Buffalo, N. Y. Shoe for the legs of metal cots and other articles. No. 1,420,602; June 20.
Young, Cecil G., U. S. Army. Supersensitive fuse. No. 1,420,300; June 20.
Zawodny, Joseph, Henryetta, Okla. Derailer. No. 1,420,357; June 20.
Zilliox, John. (See Weston, A. H., and Zilliox.)
Zimmerli, Charles, Rochester, N. Y. Self-righting desk sign. No. 1,420,603; June 20.
Zumwalt, De Fay, El Paso, Tex. Window lock. No. 1,420,358; June 20.
Zwickl, Max, Hoboken, N. J. Automobile heater. No. 1,420,301; June 20.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Adam, Harry C., St. Louis, Mo. Lighting fixture. Nos. 61,076–8; June 20.
Ammen, Francis D., St. Louis, Mo. Toy. No. 61,079; June 20.
Beagary, Herbert C., Philadelphia, Pa. Doll. No. 61,080; June 20.
Bootrym, Adam, Scranton, Pa. Frame. No. 61,081; June 20.
Bostroem, August. (See Schwartz, S. R., and Bostroem.)
Bowman, Hilma C. A., Minneapolis, Minn. Flag. No. 61,082; June 20.
Caretto, Mary, Bisbee, Ariz. Doll. No. 61,083; June 20.
Codman, William, assignor to Gorham Manufacturing Company, Providence, R. I. Handle for a spoon, fork, or similar article. Nos. 61,084–5; June 20.
Cooke, Charles F., Chicago, Ill. Highway sign. No. 61,086; June 20.
Dannolfo, Severino, South Barre, Mass. Lady's shoe. No. 61,087; June 20.
Day, Thomas, Company. (See Roller, Milton B., assignor.)
Debnam, George R., Jr., Baltimore, Md. Electric heater. No. 61,088; June 20.
Ellis, Lawrence E., New York, N. Y. Textile fabric. Nos. 61,089–90; June 20.
Fisher, Thomas, Toronto, Ontario, Canada. Belt. No. 61,091; June 20.
Gorgas, Howard J., assignor to Vanity Fair Silk Mills, Reading, Pa. Textile fabric. No. 61,092; June 20.
Gorham Manufacturing Company. (See Codman, William, assignor.)
Grossman, Benjamin H., Providence, R. I. Button. No. 61,093; June 20.
Hanzl & Steinbrenner. (See Steinbrenner, George E., assignor.)
Jarman, George R., Baltimore, Md. Refrigerating-machine casing or frame. No. 61,094; June 20.
Kerlow Steel Flooring Co. (See Lown, Walter H., assignor.)
Kuno, Richard, New York, N. Y. Button. No. 61,095; June 20.
Lemon, Alfred B., Providence, R. I. Charm. No. 61,096; June 20.
Levy, Isaac, Brooklyn, N. Y. Ceiling plate. No. 61,097; June 20.
Lown, Walter H., assignor to Kerlow Steel Flooring Co., Jersey City, N. J. Grating. No. 61,098; June 20.
McKagney, Francis A., Wilmington, Del. Tobacco pipe. No. 61,100; June 20.
Maddock Pottery Company. (See May, Charles A., assignor.)
May, Charles A., assignor to Maddock Pottery Company, Trenton, N. J. Plate or similar article. No. 61,099; June 20.
Miller Rubber Company. (See Ofensend, Chase F., assignor.)

Myers, Albert R. (See Romulus, George J., assignor.)
Ofensend, Chase F., assignor to The Miller Rubber Company, Akron, Ohio. Tire tread. No. 61,101; June 20.
Osborn, Herman W., Bedford, Ohio. Tire tread. No. 61,102; June 20.
Reaper, William A., Monroe, Mich. Ornamentation for a goblet, bowl, or similar article. No. 61,103; June 20.
Roettges, Frederick, Stamford, Conn., assignor to S. R. Schwartz, New York, N. Y. Lamp shade. No. 61,104; June 20.
Roller, Milton B., assignor to Thomas Day Company, San Francisco, Calif. Lighting-bracket back plate. Nos. 61,105–6; June 20.
Roller, Milton B., assignor to Thomas Day Company, San Francisco, Calif. Plate for lighting fixtures. Nos. 61,107–8; June 20.
Roller, Milton B., assignor to Thomas Day Company, San Francisco, Calif. Lighting fixture. Nos. 61,109–14; June 20.
Roller, Milton B., assignor to Thomas Day Company, San Francisco, Calif. Arm for lighting fixtures. Nos. 61,115–16; June 20.
Roller, Milton B., assignor to Thomas Day Company, San Francisco, Calif. Electric-lighting bracket. No. 61,117; June 20.
Romulus, George J., Lynn, Mass., assignor of one-half to A. R. Myers, Brooklyn, N. Y. Lamp. No. 61,118; June 20.
Rosen, A. W., New York, N. Y. Combined match stand and ash tray. No. 61,119; June 20.
Rúsnak, Mikel, Chicago, Ill. Combined lamp stand and phonograph. No. 61,120; June 20.
Santa, John, Leadville, Colo. Stand. No. 61,121; June 20.
Schwartz, S. Robert, and A. Bostroem, assignors to S. R. Schwartz, New York, N. Y. Portable lamp base. No. 61,122; June 20.
Schwartz, S. Robert. (See Roettges, Frederick, assignor.)
Schwartz, Samuel R. (See Schwartz, S. R., and Bostroem, assignors.)
Steinbrenner, George E., Irvington, assignor to Hanzl & Steinbrenner, Newark, N. J. Finger ring, badge, emblem, pin, or similar article. No. 61,123; June 20.
Stewart, William J., Philadelphia, Pa. Badge, button, or article of similar nature. No. 61,124; June 20.
Turrentine, Robert D., Clarksville, Tenn. Pennant. No. 61,125; June 20.
Urbanek, Joseph, Chicago, Ill. Picture and mirror frame. Nos. 61,126–7; June 20.
Vanity Fair Silk Mills. (See Gorgas, Howard J., assignor.)
Waite, Harry W., Somerville, Mass. Service flag, pennant, or similar article. No. 61,128; June 20.
Yappelli, John and Thomas, Brooklyn, N. Y. Finger ring, fob, scarf pin, or similar article of manufacture. No. 61,129; June 20.
Yappelli, Thomas. (See Yappelli, John and T.)

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abowitch, Solomon, Brooklyn, N. Y. Medicine for relief of pain after an extraction. No. 156,153; June 20.

Adams, Harry, New York, N. Y. Preparation for the treatment of rheumatism. No. 156,154; June 20.

Aktiebolaget Separator, Stockholm, Sweden. Centrifugal creamers. Nos. 20,967–8; renewed Apr. 12, 1922.

Allen, Clark J., Minneapolis, Minn. Composition for removing scale from boilers and radiators. No. 156,156; June 20.

American Aero Company, The, Chicago, Ill., and South Bend, Ind. Rotary fans. No. 156,157; June 20.

American Bleached Goods Company, New York, N. Y.; Chicago, Ill., and St. Louis, Mo. Cotton goods in the piece. No. 156,158; June 20.

American Brass Company, The, Waterbury, Conn. Tubes made from nonferrous metals and alloys. No. 156,159; June 20.

American Chain Company Inc., New York, N. Y., and Fairfield, Conn. Antiskid chains for vehicle wheels. No. 156,160; June 20.

American Druggists Syndicate, Long Island City, N. Y. Tooth paste, massage cream, etc. No. 156,161; June 20.

American Steel & Wire Company of New Jersey, The, Cleveland, Ohio. Sulphate of iron. No. 156,162; June 20.

Andersen, Marius H., Dike, Iowa. Medicinal preparation for cholera, etc., in fowls. No. 156,163; June 20.

Art Crayon Co., The, New York, N. Y. Crayons. No. 156,165; June 20.

Ashaway Line & Twine Manufacturing Company, Ashaway, R. I. Fishing line. Nos. 156,166–8; June 20.

Augis, Anton, Winegar, Wis. Healing powder for wounds, cuts, and bruises. No. 156,170; June 20.

Ault-Williamson Shoe Co., Auburn, Me. Men's and women's boots and shoes of leather and combinations of leather and fabric. No. 156,171; June 20.

Axelson Machine Company, Los Angeles, Calif. Certain machinery and tools. No. 156,169; June 20.

Bachmann, John, Chicago, Ill. Pipes and cigar holders. No. 156,172; June 20.

Bauer & Black, Chicago, Ill. Talcum powder. No. 156,173; June 20.

Bayer Company, Inc., The, New York, N. Y. Antirheumatic, analgesic, and antipyretic. No. 156,174; June 20.

Bear Chemical Company, Reading, Pa. Insecticides. No. 156,175; June 20.

Beardsley, Calvin L., Rock Island, Ill. Fruit beverage sold as a soft drink and sirups used in preparation of same. Nos. 156,176–8; June 20.

Bell, Raymond H., Columbus, Ohio. Coal. No. 156,179; June 20.

Benjamin and Johnes, Newark, N. J. Corsets and brassières. No. 156,180; June 20.

Bennett and Aspden Company, Philadelphia, Pa. Velvets. No. 156,181; June 20.

Benson, Christian L., Chicago, Ill. Canned fish, fruits, and vegetables. No. 21,856; renewed Oct. 11, 1922.

Bernhard, Ulmann Co. Inc., New York, N. Y. Woven textile fabrics in the piece used as a foundation material for art needlework. No. 156,452; June 20.

Bilhuber, E., Incorporated, New York, N. Y. Medicinal preparations for diseases of the bladder and the gall. No. 156,182; June 20.

Bing Werke vorm. Gebrüder Bing, A. G., Nuremberg, Germany. Toys. Nos. 156,183–4; June 20.

Bishop, Harriet G., Tulsa, Okla. Preparation for the treatment of tuberculosis. No. 156,185; June 20.

Blish, Mize & Silliman Hardware Co., Atchison, Kans. Certain articles of cutlery and tools. No. 156,186; June 20.

Blumenthal, Sidney, & Co., Inc., New York, N. Y. Pile fabrics in the piece. No. 156,419; June 20.

Blumenthal, Sidney, & Co., Inc., assignor to Central Union Trust Company of New York, trustee, New York, N. Y. Pile fabrics in the piece. Nos. 156,187–9; June 20.

Bobwhite Chemical Corporation, New York, N. Y. Insecticides, bactericides, disinfectants, and fungicides for plants. No. 156,190; June 20.

Brett Manufacturing Company, Inc., New York, N. Y. Hair nets. No. 156,191; June 20.

Brooks & Co. Inc., Boston, Mass. Rubber heels. No. 156,192; June 20.

Burlington Blanket Company, Burlington, Wis. Horse blankets or covers. No. 21,249; renewed June 7, 1922.

Burnett, A. E., Fort Worth, Tex. Medicinal preparation for treating piles. No. 156,193; June 20.

Burrows, Eastman A., Chicago, Ill. Refrigerating apparatus, artificial-ice machinery, including freezing tanks. No. 156,194; June 20.

Butler, Ralph C., Elaine, Ark. Hair dressing. No. 156,195; June 20.

Butterfield, Fred, & Co. Inc., New York, N. Y. Cotton piece goods. No. 156,196; June 20.

Calenduline Company of California, Baltimore, Md. Mouth wash. No. 156,197; June 20.

Calumet Baking Powder Company, Chicago, Ill. Baking powder. No. 21,792; renewed Sept. 27, 1922.

Cameron, Wm., & Co., Inc., Waco, Tex. Screen wire, door stops, transom lifts, knobs, drawer pulls, etc. No. 156,198; June 20.

Capen, George H., Canton Junction, Mass. Hat dye. No. 156,199; June 20.

Carnegie Steel Company, Pittsburgh, Pa. Rolled-metal rails, bars, plates, etc. No. 156,200; June 20.

Case, Mason, Los Angeles, Calif. Root beer. No. 156,201; June 20.

Caulk, L. D., Company, The, Milford, Del. Certain laboratory and dental apparatus. No. 156,202; June 20.

Central Union Trust Company of New York, trustee. (See Blumenthal, Sidney, & Co., assignor.)

Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile and pile fabrics in the piece. Nos. 156,204–5; June 20.

Cheramy, Incorporated, New York, N. Y. Perfume, toilet water, sachet powder, etc. No. 156,206; June 20.

Chocolate Products Company, Baltimore, Md. Candy comprised wholly or in part of chocolate. No. 156,207; June 20.

Coca Cola Bottling Company, Chicago, Ill. Beverage sold as a soft drink. No. 156,208; June 20.

Codex Book Co., Inc., New York, N. Y. Ruled sheets to be used for making graphic charts. No. 156,209; June 20.

Coe, James A., Jersey City, N. J. Preparation for coughs, colds, and mild bronchial ailments. No. 156,210; June 20.

Cohn-Hall-Marx Co., New York, N. Y. Cotton piece goods. No. 156,211; June 20.

Collins, C. C., Company, Santa Ana, Calif. Walnuts in their natural state. No. 156,212; June 20.

Colonial Chemical Corporation, Reading, Pa. Disinfectant. No. 156,213; June 20.

Colton & Collins, Inc., Oakland, Calif. Elixir and suppository for certain uses. No. 156,214; June 20.

Compagnie Generale D'Electricite, Paris, France. Plastic material having a base of casein. No. 156,215; June 20.

Condensed Bluing Company, Chicago, Ill. Bluing. No. 156,216; June 20.

Connor, E., & Company, Inc., New York, N. Y. Irish friezes and woolen cloths. No. 156,217; June 20.

Continental Drug Corporation, St. Louis, Mo. Rubbing alcohol. No. 156,218; June 20.

Continental Mills, Inc., Philadelphia, Pa. Knitted woolen and worsted cloth or fabric in the piece. No. 156,219; June 20.

Cooper, Coate & Casey Dry Goods Co., Los Angeles, Calif. Children's outer garments—namely, dresses. No. 156,220; June 20.

Coors, Adolph, B. & M. Company, Golden, Colo. Nonalcoholic, maltless, cereal beverages. No. 156,155; June 20.

Covina Orange Growers Association, Covina, Calif. Fresh oranges. No. 156,221; June 20.

Crex Carpet Company, New York, N. Y. Grass carpets and rugs. No. 156,222; June 20.

Crofts & Reed Co., Chicago, Ill. Laundry soap. No. 156,482; June 20.

Crupain, Morris, Newark, N. J. Powder puffs. No. 156,223; June 20.

Davies, Rose & Co., Ltd., Boston, Mass. Nonalcoholic, maltless flavoring for making beverages. No. 156,224; June 20.

Davies, Rose & Co., Ltd., Boston, Mass. Nonalcoholic, maltless flavoring for making beverages. No. 156,225; June 20.

Davis, Abraham M., Chicago, Ill. Medicine (a yeast laxative). No. 156,226; June 20.

Davis-Pope Company Inc., Norwalk, Conn. Men's and women's hats. No. 156,227; June 20.

De Danske Mejeriforeningers Maelke-Export, Aarhus, Denmark. Milk products—namely, sterilized and condensed milk, cream, and dried milk. No. 156,228; June 20.

Degen-Lipp, Inc., Brooklyn, N. Y. Shoes of leather, canvas, or a combination of both materials. No. 156,229; June 20.

Delisco Corporation, Limited, Boston, Mass. Coffee substitute. No. 156,230; June 20.

Doniger, David D., & Co., Inc., New York, N. Y. Caps for men. No. 156,231; June 20.

Dovan Chemical Corporation, Wilmington, Del., and Newark, N. J. Accelerator for vulcanization of rubber. No. 156,232; June 20.

Dressler, John M., Dallas, Tex. Certain medicinal preparations. No. 156,233; June 20.

Dunbar Molasses & Syrup Co., New Orleans, La. Molasses. No. 156,234; June 20.

E. Rémy Martin & Co., Rouillac, France. Brandy. No. 20,561; Renewed Jan. 5, 1922.

Economy Tumbler Co., Morgantown, W. Va. Certain glassware. No. 156,483; June 20.
Edmonds Shoe Company, Milwaukee, Wis. Leather shoes. No. 156,235; June 20.
Emerson, Frederick J., East Boston, Mass. Liquid medicinal compound. No. 156,236; June 20.
Empire Silk Company, Wilmington, Del., and New York, N. Y. Handkerchiefs and bandannas. Nos. 156,237–8; June 20.
Eriksen, George N., Newark, N. J. Liquid nail enamel. No. 156,239; June 20.
Erwin Cotton Mills Co., The, West Durham, N. C. Canton flannels, tickings, covert cloths, sheetings, and drills in the piece. No. 156,240; June 20.
Euclid Candy Company, The, Cleveland, Ohio. Candy. No. 156,241; June 20.
Evans, Wm. G., Kansas City, Mo. Liquid antiphlogistic dressing. No. 156,242; June 20.
Fair, The, Chicago, Ill. Shoes. Nos. 156,243–4; June 20.
Fiedler, Irving, Chicago, Ill. Parlor baseball games. No. 156,245; June 20.
Flannery Bolt Company, Pittsburgh, Pa. Grease cups. No. 156,246; June 20.
Fluegelman, N., & Co. Inc., New York, N. Y. Cotton piece goods. No. 156,253; June 20.
Forehand, John H., Corona, Calif. Kidney medicine and nerve tonic. No. 156,247; June 20.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. No. 156,248; June 20.
Franklin, Simon & Co. Inc., New York, N. Y. Certain articles of clothing. No. 156,249; June 20.
French Importing Co., Chicago, Ill. Hair nets. No. 156,250; June 20.
Frolong, Lena, Los Angeles, Calif. Cough remedy. No. 156,251; June 20.
Frost, John M., Buffalo, N. Y. Certain pharmaceutical preparations. No. 156,252; June 20.
Fugo Chemical Company, The, Pocatello, Idaho. Preparation for the treatment of pyorrhea. No. 156,254; June 20.
Gabriel, Saml., Sons & Company, New York, N. Y. Children's drawing books. No. 156,255; June 20.
Gams, Joseph, doing business as Protection Ink Company, New York, N. Y. Nonerasable writing, marking, and drawing ink. No. 156,256; June 20.
Garduno y Solórzano, Adrian, Mexico, Mexico. Tablets for dissolving and used in treatment of cataracts of the eye. No. 156,428; June 20.
Geer Drug Company, The, Charleston, S. C. Skin cream. No. 156,257; June 20.
Gem Air Permanent Wave Co., New York, N. Y. Hot-air hair-waving apparatus. No. 156,258; June 20.
General Tire and Rubber Company, The, Akron, Ohio. Shoe soles and heels made of or containing rubber. No. 156,259; June 20.
Gesteira, Jeronymo, Para, Brazil. Preparation to be used externally for certain purposes. No. 156,260; June 20.
Gesteira, Jeronymo, Para, Brazil. General uterus tonic. No. 156,261; June 20.
Gesteira, Jeronymo, Para, Brazil. Medicinal preparation for constipation and diseases caused by weakness of the bowels. No. 156,262; June 20.
Gibbon, C. S., Co., Philadelphia, Pa. Women's leather and combination shoes. No. 156,263; June 20.
Gillette Safety Razor Company, Boston, Mass. Safety razors. No. 156,264; June 20.
Glemby's, S., Sons Co. Inc., New York, N. Y. Hair nets. No. 156,265; June 20.
Gold Seal Knitting Mills, Reading, Pa. Hosiery. No. 156,266; June 20.
Gomez & Sloan, Inc., New York, N. Y. Metal pipes, pipe fittings, soap containers, etc. No. 156,267; June 20.
Graham Paper Company, St. Louis, Mo. Wrapping paper. No. 156,268; June 20.
Grasselli Chemical Company, The, Cleveland, Ohio. Dyes and dyestuffs, mordants, and photographic chemicals. No. 156,269; June 20.
Grasselli Chemical Company, Cleveland, Ohio. Dye and dyestuffs. Nos. 156,270–1; June 20.
Grasselli Chemical Company, The, Cleveland, Ohio. Chemical preparations for certain purposes. No. 156,272; June 20.
Grasselli Chemical Company, The, Cleveland, Ohio. Dyes and dyestuffs. Nos. 156,273–5; June 20.
Grasselli Chemical Company, The, Cleveland, Ohio. Antiseptics, disinfectants, fungicides, and insecticides. No. 156,276; June 20.
Grasselli Chemical Company, The, Cleveland, Ohio. Dyes and dyestuffs. Nos. 156,277–9; June 20.
Grasselli Chemical Company, The, Cleveland, Ohio. Photographic developers. No. 156,280; June 20.
Grasselli Chemical Company, The, Cleveland, Ohio. Chemical for preventing decomposition. No. 156,281; June 20.
Greenberg, Harry, Co., Inc., New York, N. Y. Ladies' and misses' coats and suits. No. 156,282; June 20.
Griscom-Russell Company, The, New York, N. Y. Pressure regulators, strainers, expansion joints, and feed-water-purifying apparatus. No. 156,283; June 20.
Glaser, Gustav, Co., Inc., New York, N. Y. Bread pans, coffee boilers, dinner carriers, etc. No. 156,284; June 20.
Hardwick & Magee Company, Philadelphia, Pa. Chenille carpets. No. 156,286; June 20.
Hargest, Archibald T., Middletown, N. Y. Preparations for certain purposes. No. 156,285; June 20.
Harley, E. C., Company, The, Dayton, Ohio. Canned fruits, vegetables, and fish, teas. No. 156,287; June 20.
Hauser & Weil, New York, N. Y. Writing cases and tablets, writing sets, and telephone registers. No. 156,288; June 20.
Havens, William H., Gary, Ind. Medicine for treatment of cancer. No. 156,289; June 20.
Hegewisch Chemical Works, Chicago, Ill. Medicinal fattening compound for animals. No. 156,290; June 20.
Herbst, Abram W., New York, N. Y. Perfume. Nos. 156,291–2; June 20.
Herzog, Moses, New York, N. Y. Hair nets. No. 156,293; June 20.
Hetta Packing Co., Inc., Sulzer, Alaska. Canned salmon. No. 156,294; June 20.
Hicks-Hayward Company, El Paso, Tex. Certain articles of clothing. No. 156,295; June 20.
Hill Manufacturing Co., Lewiston, Me. Cotton piece goods—namely, twills. No. 156,296; June 20.
Hilton, George F., St. Augustine, Ill. Preparation for preventing corrosion of the terminals of storage batteries. No. 156,297; June 20.
Hoffman and Hauck, Inc., Woodhaven, N. Y. Honey, olive oil, peanut butter, fruit jam, etc. No. 156,300; June 20.
Hoffman, C. E., Company, Dallas, Tex. Hair tonic. No. 156,298; June 20.
Hoffman, C. E., Company, Dallas, Tex. Hair tonic. No. 156,299; June 20.
Holland, A. D., & Co., Chicago, Ill. Aperient medicinal preparation. No. 156,301; June 20.
Holmac, Inc., New York, N. Y. Golf balls. No. 156,302; June 20.
Hopkins, Thornton, Nashville, Tenn. Boiler compound. No. 156,441; June 20.
Hott, John F., Monticello, Ill. Female remedy recommended for ovarian troubles, etc. No. 156,303; June 20.
Hudson, R. A., Company Incorporated, Auburn, N. Y. Certain toilet preparations. No. 156,304; June 20.
Hughes, W. H., Sapulpa, Okla. Preparation for the treatment of rheumatism, gout, etc. No. 156,305; June 20.
Hurd, George B., & Co., New York, N. Y. Writing paper and envelopes. No. 21,138; renewed May 17, 1922.
Inkograph Company, Inc., New York, N. Y. Pencils. No. 156,306; June 20.
Innis, Speiden & Co., Inc., New York, N. Y. Certain chemicals. No. 156,307; June 20.
Irish Linens, Inc., New York, N. Y. Linens and canvas in piece goods and tablecloths, napkins, handkerchiefs. No. 156,308; June 20.
J. X. Chemical Company, The, Baltimore, Md. Certain pharmaceutical preparations. No. 156,203; June 20.
Jansen & Pretzfeld, Inc., New York, N. Y. Silks in the piece. Nos. 156,309–11; June 20.
Jasper, Minna A., Rochester, N. Y. Cough medicine. No. 156,312; June 20.
Jenkins, John J., Victor, Colo. Antiseptic wash. No. 156,313; June 20.
Jersey City Packing Company, Jersey City, N. J. Lard. No. 20,844; renewed Mar. 15, 1922.
Jonas, Juliet J., New York, N. Y. Ladies' hats and gowns. No. 156,314; June 20.
Kaufman, Joseph, New York, N. Y. Breakfast cereal food. No. 156,484; June 20.
Keeler, F. M., Co., The, Boston, Mass. Hair nets. No. 156,315; June 20.
Kelly, John A., Great Falls, Mont. Salve or preparation for throat and lung trouble. No. 156,316; June 20.
Kennedy, F. J., Charlotte, N. C. Vegetable compound used as a general tonic and blood medicine. No. 156,317; June 20.
Kingsley, Charles B., Northampton, Mass. Remedy for the cure of headache, colds, neuralgia, etc. No. 21,051; renewed Apr. 26, 1922.
Klatscher & Lorenz, Inc., New York, N. Y. Hops. No. 156,318; June 20.
Klavon, James J., Pittsburgh, Pa. Liniments. No. 156,319; June 20.
Koppel Industrial Car & Equipment Company. Koppel and Pittsburgh, Pa. Railway rails, metal ties, fish plates, switch points, etc. No. 156,321; June 20.
Koppel Industrial Car & Equipment Company. Koppel and Pittsburgh, Pa. Welded and riveted pipe, railway spikes and bolts, etc. No. 156,320; June 20.
Kruger Drug Co., Brooklyn, N. Y. Medicinal preparation for treatment of the stomach, liver, and bowels. No. 156,322; June 20.
Lamb Fruit Company, The, Milton, Oreg. Fresh deciduous fruit. No. 156,323; June 20.
La Societe Anonyme Du Filtre Chamberland Systeme Pasteur, Paris, France. Filters. No. 156,324; June 20.
Lavelvo Company, The, Columbus, Ohio. Skin lotion. No. 156,325; June 20.
Lea & Perrins, Worcester, England. Sauce for meats, fish, game, gravies, and soup. No. 21,208; renewed May 31, 1922.
Leprince, Maurice, Bourges, France. Pills. No. 21,926; renewed Nov. 1, 1922.
Lewinski, Frank K., Akron, Ohio. Healing salve for wounds. No. 156,326; June 20.
Lindenbaum, I., & Co., New York, N. Y. Lace in the piece. Nos. 156,327–8; June 20.
Lindsley, John N., Inc., South Orange, N. J. Hammers. No. 156,329; June 20.

Loveman Brothers, New York, N. Y. Silk, drapery, shade cloth, and curtain materials. No. 156,331; June 20.
Lowe, Henry, Cigar Co., Fort Worth, Tex. Cigars. No. 156,332; June 20.
Lublin, Kora M., New York, N. Y. Facial theatrical make-up powder. No. 156,333; June 20.
McCarthy Brothers, San Francisco, Calif. Baking powder. No. 156,334; June 20.
McClure, Thomas H., New York, N. Y. Cigar and cigarette holders. No. 156,335; June 20.
McCreery, James, & Company, New York, N. Y. Shoes of leather, rubber, and fabric for women and children. No. 156,336; June 20.
McGill & Holford Manufacturing Co. Inc., Binghampton, N. Y. Silk-throwing machinery and parts thereof. No. 156,337; June 20.
McInnes-Walker Company, Milwaukee, Wis. Coffee and tea. No. 156,338; June 20.
Macwhyte Company, Kenosha, Wis. Metal wire, ferrous and nonferrous. No. 156,339; June 20.
Magnuson X-ray Company, Omaha, Nebr. Barium sulphate. No. 156,340; June 20.
Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. No. 156,341; June 20.
Malloy, Irene, Hat Company, Fort Wayne, Ind. Women's hats. No. 156,342; June 20.
Malt-Diastase Company, New York, N. Y. Liquid and concentrated malt extracts. No. 156,485; June 20.
Marshall Field & Company, Chicago, Ill. Witch-hazel. No. 156,343; June 20.
Marston-Greening Company, Inc., Los Angeles, Calif. Nuts and popcorn. No. 156,344; June 20.
Marston-Greening Co. Inc., Los Angeles, Calif. Food colors. No. 156,345; June 20.
Mayerle, George, San Francisco, Calif. Binoculars, field glasses, telescopes, microscopes, etc. No. 156,346; June 20.
Merritt's Sons, Newburgh, N. Y. Liquid skin tonics. No. 156,347; June 20.
Meyer, William H., Brooklyn, N. Y. Fishing-rod mountings. No. 156,348; June 20.
Miller Filler Co., Inc., Brockton, Mass. Plastic composition. No. 156,349; June 20.
Miller, Jacob, Sons, & Co., Philadelphia, Pa. Cotton, silks, and linen piece goods and mixtures. No. 156,350; June 20.
Miller Rubber Company, The, Akron, Ohio. Bathing caps, belts, rubber household gloves. No. 156,351; June 20.
Milligan, G. D., Grocer Co., Springfield, Mo. Canned fruits and vegetables. No. 156,352; June 20.
Mills, Stephen J., Boston, Mass. Foot wash. No. 156,353; June 20.
Minneapolis Drug Company, Minneapolis, Minn. Certain brushes, brooms, and powder puffs. No. 156,486; June 20.
Moss Glove & Hosiery Co., San Francisco, Los Angeles, Oakland, Sacramento, Stockton, and Fresno, Calif., and Denver, Colo. Leather and fabric gloves and hosiery. No. 156,354; June 20.
Moxie Company, The, Boston, Mass. Candies. No. 156,355; June 20.
Muraour, Henri, & Cie., Grasse, France. Certain toilet preparations. Nos. 156,356–7; June 20.
Muser Brothers, New York, N. Y. Silk in the piece. No. 156,358; June 20.
Muser Brothers, New York, N. Y. Cotton net. No. 156,359; June 20.
Muser Brothers, New York, N. Y. Artificial silk in the piece. No. 156,360; June 20.
Muser Brothers, New York, N. Y. Piece goods of silk and cotton mixtures. No. 156,361; June 20.
Nafziger Baking Company, Kansas City, Mo. Bread. No. 156,487; June 20.
National Aniline & Chemical Company, Inc., New York, N. Y. Coal tar dyestuffs. No. 156,488; June 20.
National Commodities Company, Wilmington, Del., and Philadelphia, Pa. Hair nets. Nos. 156,362–3; June 20.
National Paper Can Company, The, Milwaukee, Wis. Coffee. No. 156,364; June 20.
National Valve & Manufacturing Company, Pittsburgh, Pa. Valves, steam separators, and pipe fittings. No. 156,365; June 20.
Neemo Hair Net Co. Inc., New York, N. Y. Hair nets. No. 156,366; June 20.
Neuss, Hesslein & Co. Inc., New York, N. Y. Woven cotton piece goods. No. 156,367; June 20.
New England Confectionery Company, Boston, Mass. Candy. Nos. 156,368–70; June 20.
New England Stationery Company, Boston, Mass. Stationery. Nos. 156,371–2; June 20.
New Standard Rubber Co. Inc., Los Angeles, Calif. Retread strips for automobile tires. No. 156,489; June 20.
New York Merchandise Co., New York, N. Y. Hair nets. Nos. 156,373–5; June 20.
Nicholson, J. W., & Co., London, England. All spirituous and fermented liquors except brandy. No. 21,571; renewed Aug. 9, 1922.
Northwestern Hide & Fur Co., Minneapolis, Minn. Poison for animals. No. 156,490; June 20.
Novak, John, Company, Chicago, Ill. Salve for rheumatism, sprains, etc. No. 156,376; June 20.
Nu-Iron Laboratory, Incorporated, The, Denver, Colo. General medicinal tonic. No. 156,377; June 20.
Nyanza Color & Chemical Co., Inc., New York, N. Y. Moth preventive and immunizer in solid form. No. 156,376; June 20.
Oak Knitting Company, Syracuse, N. Y. Knitted underwear. No. 156,379; June 20.
Olsen, Mourad J., Des Moines, Iowa. Liquid tonic. No. 21,553; renewed Aug. 2, 1922.
Owl Drug Company, The, San Francisco, Calif. Certain medicinal and pharmaceutical preparations. No. 156,380; June 20.
O-Zo-Zo Company, Inc., Boston, Mass. Soluble laundry blue mounted in a stirrer. No. 156,381; June 20.
Pacific Mills, Lawrence and Boston, Mass. Cotton piece goods. Nos. 156,382–3; June 20.
Page Belting Company, Concord, N. H. Certain rubber and leather goods. No. 21,924; renewed Nov. 1, 1922.
Parke, Davis & Company, Detroit, Mich. Certain chemical, medicinal, and pharmaceutical preparations. No. 156,384; June 20.
Parker, Alice L., New York, N. Y. Hair tonic. No. 156,385; June 20.
Patch, E. L., Co., The, Stoneham, Mass. Sodium-bicarbonate tablets. No. 156,386; June 20.
Pease, P. L., & Company, Inc., Lancaster, N. Y. Articles of stationery adapted to hold writing paper and also having writing surfaces. No. 156,387; June 20.
Penney, J. C., Company, Salt Lake City, Utah, and New York, N. Y. Cotton piece goods. No. 156,388; June 20.
Peppard, J. G., Seed Co., Kansas City, Mo. Seeds—namely, grass, field, alfalfa, etc. No. 156,389; June 20.
Perfecto Chemical Co., Inc., New York, N. Y. Hair dye. No. 156,390; June 20.
Perlmann, Schal & Stern, New York, N. Y. Lace and embroidery articles. Nos. 156,391–2; June 20.
Phosphate Products Corporation, Richmond, Va. Chemical substance giving self-rising qualities to flour. No. 156,393; June 20.
Piroxloid Products Corporation, New York, N. Y. Indoor baseball game. No. 156,394; June 20.
Piuma, Joseph A., Los Angeles, Calif. Medicinal preparation for glandular insufficiency. No. 156,395; June 20.
Printz, Georg & Co., Aachen, Germany. Sewing needles. No. 19,196; renewed Mar. 17, 1921.
Prontic Druggists, Inc., The, Baltimore, Md. Certain medicinal preparations. No. 156,396; June 20.
Protection Ink Company. (See Gams, Joseph.)
Purinton Medicine Co., Detroit, Mich. Remedy for rheumatism. No. 21,549; renewed Aug. 2, 1922.
Purity Biological Laboratories, Sioux City, Iowa. Vaccines and serums. No. 156,397; June 20.
Rade Rite Mfg. Co., The, Holyoke, Mass. Radiator-sealing material. No. 156,398; June 20.
Reinschild Chemical Co., New York, N. Y. Tonics and blood-building preparations. No. 156,399; June 20.
Reiss-Premier Pipe Company, Chicago, Ill. Smoking pipes and cases for pipes. No. 156,491; June 20.
Reliable Kiddy Wear Company, Inc., New York, N. Y. Baby bath robes, dresses, and bunting or wrap. No. 156,400; June 20.
Reynier & Cie., assignor to Etablissements Reynier, Grenoble, France. Leather gloves. Nos. 156,401–3; June 20.
Ringler, William A., Philadelphia, Pa. Card-filing systems. No. 156,404; June 20.
Riverside & Dan River Cotton Mills, Inc., Danville, Va. Chambray and cheviots in the piece. No. 156,405; June 20.
Roessel, Louis, & Co. Inc., New York, N. Y. Silks in the piece. No. 156,407; June 20.
Rosenthal, Maurice, San Francisco, Calif. Cigars. No. 156,406; June 20.
Rubberhide Company, Boston, Mass. Boots and shoes of a combination of leather, rubber, and fabric. No. 156,408; June 20.
Ruge, Herman & Sons, Apalachicola, Fla. Fish, oysters, and other shell fish packed in tin and glass. No. 21,863; renewed Oct. 11, 1922.
Salomon Stern Ld., London, England. Combinations, bodices, nightdresses, etc. No. 156,409; June 20.
Saltzman, Maurice, New York, N. Y. Ladies' hats. No. 156,410; June 20.
San Aprove Company, The, Detroit, Mich. Tooth paste. No. 156,411; June 20.
Sanford Spinning Company, Fall River, Mass. Cotton yarn. No. 21,745; renewed Sept. 13, 1922.
Sanitax Brush Company, Chicago, Ill. Brushes. No. 156,412; June 20.
Schadewald, Henry M., Philadelphia, Pa. Haircloth. No. 156,413; June 20.
Seeman Brothers, New York, N. Y. Canned vegetables and fish. No. 20,942; renewed Mar. 17, 1921.
Sem-Pray Jo-Ve-Nay Company, Grand Rapids, Mich. Toilet cream. Nos. 153,414–15; June 20.
Sharp & Dohme, Baltimore, Md. Footease preparation. No. 156,416; June 20.
Shoeteria Shoe Company, Salt Lake City, Utah. Shoes, boots, pumps, oxfords, slippers, rubbers, overshoes. No. 156,417; June 20.
Shurly & Dietrich, Galt, Canada. Saws. Nos. 21,688–9; renewed Aug. 23, 1922.
Sidenberg, G., & Co., New York, N. Y. Collars and cuffs, guimpes, vestees, ruffs, jabots, and chemisettes. No. 156,418; June 20.

Skinner, William, & Sons, New York, N. Y., and Holyoke, Mass. Silks in the piece. No. 156,421; June 20.
Smith and Hemenway Company, Inc., New York, N. Y. Pliers. No. 156,422; June 20.
Smith, Hogg & Co., New York, N. Y. Cotton goods in the piece. No. 156,423; June 20.
Smith, Nellie V., New York, N. Y. Cold-cream preparation. No. 156,424; June 20.
Snipes, Emmet, Searcy, Ark. Liquid preparation for all skin diseases. No. 156,425; June 20.
Society of Chemical Industry in Basle, Basel, Switzerland. Local anesthetic. No. 156,426; June 20.
Society of Chemical Industry in Basle, Basel, Switzerland. Oxytocic. No. 156,427; June 20.
South Bend Wholesale Grocery Company, South Bend, Ind. Table sirup, mustard, peanut butter, etc. No. 156,492; June 20.
Spear, George, Paterson, N. J. Hair tonic, shampoo, and an external liniment. No. 156,429; June 20.
Standard Oil Company, San Francisco, Calif. Oil of mirbane, benzol, xylol, ether, etc. No. 156,430; June 20.
Standard Ultramarine Co., The, Huntington, W. Va. Ultramarine blue. No. 156,431; June 20.
Stearns & Foster Company, The, Lockland, Ohio. Cotton batting. No. 156,432; June 20.
Stevens Soft Sole Shoe Co., Salem, Mass. Infants' soft-sole shoes. No. 156,433; June 20.
Stix, Louis, Co., The, Cincinnati, Ohio. Hosiery. No. 156,330; June 20.
St. Mungo Manufacturing Company of America, Newark, N. J. Golf balls. No. 156,434; June 20.
Stout Medicine Company, The, Baltimore, Md. Remedy for weakness, anæmia, impaired nutrition, and malassimilation. No. 156,435; June 20.
Strathmore Paper Company, West Springfield, Mass. Wedding, ledger, photo-mount, book, cover, correspondence, and printing paper, cardboard, etc. No. 156,493; June 20.
Strauss Leather Company, Pittsburgh, Pa. Sole and side leather. Nos. 156,436–7; June 20.
Strauss, Max, New York, N. Y. Woven and knitted silk piece goods. No. 156,438; June 20.
Stroud & Co., Omaha, Nebr. Dump wagons. Nos. 156,494–5; June 20.
Simmons & Hammond Manufacturing Co., Portland, Me. Tooth powders and toilet creams. No. 156,420; June 20.
Sweitzer, Lothar E., Milwaukee, Wis. Germicidal dental medicines and tooth paste. No. 156,439; June 20.
Taylor, Charlotte E., New York, N. Y., Chicago, Ill., Boston, Mass., and Philadelphia, Pa. Hats and bonnets for ladies, misses, and young boys, and trimmings therefor. No. 22,090; renewed Nov. 29, 1922.
Tetlow, Ida J., Philadelphia, Pa. Toilet preparations. No. 156,440; June 20.
Tichenor, Walter A., Brooklyn, N. Y. Semilaxative tablets or powders. No. 156,442; June 20.
Trahern Tobacco Co. Inc., Clarksville, Tenn. Tobacco extract for saucing or flavoring tobacco. No. 156,443; June 20.
Trimount Trading Company, Boston, Mass. Hair nets. No. 156,444; June 20.
Trion Company, Trion, Ga. Cotton goods in the piece. Nos. 156,445–6; June 20.
Trippe, Barker & Co., New York, N. Y. Cotton piece goods. No. 156,447; June 20.
Tryon, Edw. K., Company, Philadelphia, Pa. Fishing lines. No. 156,496; June 20.
Tully, Francis W., Boston, Mass. Raincoats. No. 156,448; June 20.
Turner & Walls, New York, N. Y. Shirtings in the piece. No. 156,449; June 20.
Tuttle, Orley C., Old Forge, N. Y. Artificial bait. No. 156,450; June 20.
Twyman, Sidney J., Dayton, Ohio. Toy circus. No. 156,451; June 20.
United States Gypsum Company, Chicago, Ill. Calcined gypsum plasters. No. 156,453; June 20.
United Turkey Red Company, Limited, Glasgow, Scotland. Certain articles of clothing. No. 156,454; June 20.
Velo y Filgueire, Angel, Habana, Cuba. Mineral water. No. 156,164; June 20.
Verband Schweiz Armaturenfabriken, Bern., Berne, Switzerland. Metal cocks. No. 156,455; June 20.
Victory Rubber Company, Seattle, Wash. Heels, soles, composed entirely or partly of rubber. No. 156,456; June 20.
Vivaudou, V., Inc., New York, N. Y. Certain toilet preparations. No. 156,457; June 20.
Vivaudou, V., Inc., New York, N. Y. Smoking and chewing tobacco, cigars, cigarettes, and stogies. No. 156,458; June 20.
Wagemaker Company, Grand Rapids, Mich. Floor coverings and furniture top coverings made chiefly of linoleum. No. 156,459; June 20.
Ware Shoals Mfg. Co., Ware Shoals, S. C. Cotton piece goods. No. 156,460; June 20.
Waterman Manufacturing Company, Yarmouth, Me. Remedy for malaria. No. 156,461; June 20.
Watson, Ferris D., Waxahachie, Tex. Cotton seed. No. 156,462; June 20.
Watterson, John D., Kalida, Ohio. Preparation for ulcerated gums and infections of the mouth. No. 156,463; June 20.
Wellington, Sears & Company, Boston, Mass. Cotton duck or canvas. No. 156,464; June 20.
White-Washburne Company Inc., Hinsdale, N. H. Toilet paper. Nos. 156,465–7; June 20.
Whittenton Manufacturing Company, Taunton, Mass. Cotton piece goods. No. 156,468; June 20.
Wiener, William E., Inc., New York, N. Y. Silk goods. No. 156,469; June 20.
Wilbert Products Co., The, New York, N. Y. Ammonia and javelle water. No. 156,470; June 20.
Williamsport Development Company, Williamsport, Pa. Composition packing. No. 156,471; June 20.
Wilson, George A., Jr., San Francisco, Calif. Certain toilet preparations. No. 156,472; June 20.
Windell, Frank D., Philadelphia, Pa. Temperature-registering devices. No. 156,473; June 20.
Wiswell, Albert G., Chester, Pa., and Wilmington, Del. Toothache liquid and wax ointment both antiseptic and anæsthetic. No. 156,497; June 20.
Woll, Peter, and Sons Mfg. Co., Philadelphia, Pa. Curled hair for mattresses, etc. No. 156,474; June 20.
Wood & Selick, Inc., New York, N. Y. Beverages sold as soft drinks and sirups for making same. No. 156,475; June 20.
Worcester Brush and Scraper Co., Worcester, Mass. Wire brushes. No. 156,476; June 20.
Worth, Inc., New York, N. Y. Certain articles of clothing. No. 156,477; June 20.
Yale & Towne Mfg. Co., The, Stamford, Conn. Automotive trucks and trailers. No. 156,478; June 20.
Young & Sons, Inc., Hoboken, N. J. Transits and levels. Nos. 156,479–80; June 20.
Zo-No Company, The, Cleveland, Ohio. Preparation for the extermination of vermin. No. 156,481; June 20.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Abelio, Dr. J. M., doing business under name of Ovotone Company, Denver, Colo. "Ovotone." (For Endocrine Gland Tablets.) No. 24,481; June 20.
American Fresh Fruit Company, New York, N. Y. "Saffic." (For Packages or Cartons Containing Fruit.) No. 24,482; June 20.
Bare Fruit Co. (See Bare, John V.)
Bare, John V., doing business as the Bare Fruit Co., Lodi, Calif. "Bare." (For Fresh Grapes.) No. 24,483; June 20.
Bare, John V., doing business as the Bare Fruit Co., Lodi, Calif. "Cub Brand." (For Fresh Grapes.) No. 24,484; June 20.
Beacon Trading Company, Seattle, Wash. "Beacon." (For Apples.) No. 24,485; June 20.
Benaderet, Samuel, San Francisco, Calif. "B. & P." (For Egyptian Cigarettes.) No. 24,486; June 20.
Breslin & Campbell, Inc., New York, N. Y. "Beaver." (For Cigars.) No. 24,487; June 20.
Bryant, Lane, New York, N. Y. "Women's Apparel in Misses Sizes." (For Women's Apparel.) No. 24,489; June 20.
Century Biscuit Co., Indianapolis, Ind. "Jim-Dandy Bread." (For Bread.) No. 24,490; June 20.
Chicago Automobile Trade Association, Chicago, Ill. "Tested and Approved Used Automobiles." (For Used Automobiles.) No. 24,491; June 20.
Chore-Utensils Corporation of America, The. (See Kingman, Russell B., assignor.)
Cliwill Food Products, Inc., New York, N. Y. "Royall's French Dressing." (For Bottles Containing Salad Dressing.) No. 24,492; June 20.
Colby & McDermott, Los Angeles, Calif. "Abba-Zaba." (For Candies.) No. 24,493; June 20.
Cremint Co., New York, N. Y. "Cremints." (For Packages of Candy.) No. 24,494; June 20.
Denio, J. W., Milling Company, The, Sheridan, Wyo. "Diamond D." (For Flour.) No. 24,495; June 20.
Denio, J. W., Milling Company, The, Sheridan, Wyo. "Wheatsbest." (For Flour.) No. 24,496; June 20.
Dexter Baking Company, The, Waterbury, Conn. "Dexter's Whole Wheat Bread." (For Bread.) No. 24,497; June 20.
Dragon Paper Mfg. Co., Inc., Long Island City, N. Y. "Polly Bread." (For Bread.) No. 24,498; June 20.
Drug Products Co., Inc., The, Long Island City, N. Y. "Palatable Tablets Vita Yeast." (For Packages Containing a Food Tonic.) No. 24,499; June 20.
Drug Products Co. Inc., The, Long Island City, N. Y. "Palatable Granules Vita Yeast." (For Packages Containing a Food Tonic.) No. 24,500; June 20.
Eau Claire Baking Co. (See Menasha Printing and Carton Company, assignor.)
Eclipse White Lead & Color Co., Brooklyn, N. Y. "Surfa-Save." (For Paints.) No. 24,501; June 20.
Elson, Nathan, Chicago, Ill. "Ben Bey." (For Cigars.) No. 24,502; June 20.

Englewood Candy Mfg. Co., Chicago, Ill. "Oh! Sweetie." (For Candy.) No. 24,503; June 20.
Gardner Broom Co., Amsterdam, N. Y. "Goldwin." (For Brooms.) No. 24,504; June 20.
Gardner Broom Co., Amsterdam, N. Y. "White Rose." (For Brooms.) No. 24,505; June 20.
Gardner Broom Co., Amsterdam, N. Y. "Morning Glory." (For Brooms.) No. 24,506; June 20.
Garnet, George H., Allentown, Pa. "Fluffy Puff." (For a Confection Comprising Ice Cream Inclosed within Pastry.) No. 24,507; June 20.
Gash, Abraham, New York, N. Y. "Virgin Olive Oil." (For Olive Oil.) No. 24,508; June 20.
Gorham Chocolate Company, Inc., Brooklyn, N. Y. "Gorham Pie." (For Candy.) No. 24,509; June 20.
Graugnard, H., Galveston, Tex. "Honey Krust." (For Bread.) No. 24,510; June 20.
Green Bros. Co., Springfield, Mass. "Green's Original Chocolate Covered Raisin Cocoanut Cream Bar." (For Carton for Candy.) No. 24,511; June 20.
Henry-Brown Co. Inc., Glendale, Calif. "Sierra Club." (For Ginger Ale.) No. 24,488; June 20.
Huberd, J. W., Eugene, Oreg. "Huberd's Shoe Grease." (For Shoe Grease.) No. 24,512; June 20.
Infanzon & Rodriguez, New York, N. Y., and Mayaguez, P. R. "Infanzon & Rodriguez Porto Rican Planter." (For Cigars.) No. 24,513; June 20.
Internationala, Limited, Chicago, Ill. "'The Green Lemon.'" (For Soap.) No. 24,514; June 20.
Jevne, H., Co., Los Angeles, Calif. "Jevne's Gingham." (For Coffee.) No. 24,515; June 20.
Jevne, H., Co., Los Angeles, Calif. "Jevne's Brown Mill." (For Coffee.) No. 24,516; June 20.
Jevne, H., Co., Los Angeles, Calif. "Jevne's Look for the Gingham Package." (For Rolled Oats.) No. 24,517; June 20.
Jevne, H., Company, Los Angeles, Calif. "Jevne's." (For Biscuit Flour.) No. 24,518; June 20.
Jevne, H., Co., Los Angeles, Calif. "Jevne's Look for the Gingham Package." (For Rolled Oats.) No. 24,519; June 20.
Johnston, Huntington, Yakima, Wash. "Tieton." (For Apples.) No. 24,520; June 20.
Karp, Joseph H., New York, N. Y. "Bleacho." (For Hair Bleach.) No. 24,521; June 20.
Kingman, Russell B., assignor to The Chore-Utensils Corporation of America, Orange, N. J. "The Chore Boy—243 Uses." (For Scouring Cloths.) No. 24,522; June 20.
Kolbe, Paul, Detroit, Mich. "Pee-Kay." (For a Sirup for Making Soft Drinks.) No. 24,523; June 20.
Landman, Robin, Milwaukee, Wis. "Royal Juliet." (For Cigars.) No. 24,524; June 20.
McArthur, John W., doing business under the name of Scientific Oil Service, Minneapolis, Minn. "Shur Oylus." (For Oils and Greases.) No. 24,527; June 20.
Madden's Pharmacy, Jacksonville, Fla. "Madden's Creopine Cough Sirup." (For Cough Sirup.) No. 24,525; June 20.
Marsh, M., & Son, Inc., Wheeling, W. Va. "Marsh Big Havana Wheeling." (For Stogies.) No. 24,526; June 20.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Eau Claire Baking Co., Eau Claire, Wis. "Old Home Bread." (For Wax-Paper Bread Wrappers.) No. 24,528; June 20.
Miller-Parrott Baking Co., Terre Haute, Ind. "Fruit Loaf." (For Loaves of Bread.) No. 24,529; June 20.
Moore Push Pin Company, Philadelphia, Pa. "Moore Push-Pins." (For Push Pins.) No. 24,530; June 20.
Moth K-L Company, Incorporated, The, Wilmington, Del., and New York, N. Y. "Moth K-L." (For a Liquid Preparation for Protection Against Moths.) No. 24,531; June 20.
Nekritz, Louis, doing business as The Perfect Polish Company, Brooklyn, N. Y. "Nek-Ritz's Iron Lustre." (For a Stove Gloss Preparation.) No. 24,532; June 20.
New York Merchandise Company, New York, N. Y. "Dora Dean Hair Net." (For Hair Nets.) No. 24,533; June 20.
New York Merchandise Company, New York, N. Y. "Della Hair Net." (For Hair Nets.) No. 24,534; June 20.
New York Merchandise Company, New York, N. Y. "Ruby Hair Net." (For Hair Nets.) No. 24,535; June 20.
New York Merchandise Company, New York, N. Y. "Dolly Varden Hair Net." (For Hair Nets.) No. 24,536; June 20.
North American Fruit Exchange, Jersey City, N. J., and New York, N. Y. "Live Oak Brand Tomatoes." (For Tomatoes.) No. 24,537; June 20.
Nuradium Company, Chicago, Ill. "Nuradium." (For a Medicinal and Pharmaceutical Preparation, Consisting of Minute Particles of Radium Combined with Other Medicinal and Therapeutical Ingredients to Form Nuradium.) No. 24,538; June 20.
O'Neall, William M., Chicago, Ill. "Madagasco." (For a Preparation for the Hair.) No. 24,539; June 20.
Ovotone Company. (See Abelio, Dr. J. M.)
Paducah Hosiery Mills, Inc., Paducah, Ky. "Padu Knit." (For Hosiery.) No. 24,540; June 20.
Penryn Fruit Company, Penryn, Calif. "Fancy California Cherries." (For Boxed Cherries.) No. 24,541; June 20.
Perfect Polish Company. (See Nekritz, Louis.)
Petri Italian-American Cigar Co., Inc., San Francisco, Calif. "Il Vincitor." (For Boxes Containing Cigars.) No. 24,542; June 20.
Picaninny Freeze Company of America, Salt Lake City, Utah. "Picaninny Freeze Eat Seeds 'n All." (For Ice Cream or Analogous Confections, and More Particularly in the Form of Individual Frozen Dainties.) No. 24,543; June 20.
Put and Take Co., Memphis, Tenn. "Put and Take All Rubber Patch." (For an All-Rubber Patch for Mending Automobile Tire Inner Tubes or Other Articles Made of Rubber or Fabric.) No. 24,544; June 20.
Remington Arms Company, Inc., New York, N. Y., Bridgeport, Conn., and Ilion, N. Y. "Remington Cutlery." (For Cutlery.) No. 24,545; June 20.
Remington Arms Company, Inc., New York, N. Y., Bridgeport, Conn., and Ilion, N. Y. "Trap Load." (For Loaded Shot Shells.) No. 24,546; June 20.
Rey de la Barba Cigar Co., New York, N. Y. "Rey De La Barba." (For Boxes and Cans Containing Cigars.) No. 24,547; June 20.
Richardson Dry Goods Co., St. Joseph, Mo. "Castle." (For Underwear.) No. 24,548; June 20.
Rolly Chemical Co., Hastings, Nebr. "Rolly's Wonder." (For Complexion Soap.) No. 24,549; June 20.
Sands Cocoa Corporation, Brooklyn, N. Y. "Sands Prepared Cocoa Cubes." (For Cocoa.) No. 24,550; June 20.
Sargent, Earl L., Beverly, Mass. "Sprucine." (For Medicinal Ointment.) No. 24,551; June 20.
Scheidt, Adam Brewing Company, Norristown, Pa. "Valley Forge Special Malt Extract." (For Malt Extract.) No. 24,552; June 20.
Schulte, D. A., Inc., New York, N. Y. "La Dasca." (For Cigars, Cigarettes, and Tobacco.) No. 24,553; June 20.
Scientific Oil Service. (See McArthur, John W.)
Sebastopol Apple Growers Union, Sebastopol, Calif. "Fancy Gravensteins." (For Boxed Apples.) No. 24,554; June 20.
Siem, Conrad, Washington, D. C. "Alaska Patties." (For Patties or Small Pies Consisting of Thin Palatable Crusts or Casings Confected in Different Combinations, Filled with Variously-Flavored Ice Creams, Sherbets, Fruit Ices or Other Frozen Dainties.) No. 24,555; June 20.
Solvos Company, The, Chicago, Ill. "Coulette." (For a Protective Undergarment for Women.) No. 24,556; June 20.
Solvos Company, The, Chicago, Ill. "Petti-Coulette." (For a Protective Undergarment for Women.) No. 24,557; June 20.
Stern, Joseph, & Sons Inc., New York, N. Y. "Mejor Manteca Pura De Chicharron." (For Lard.) No. 24,558; June 20.
Stevens-Wiley Manfg. Co. Inc., The, Philadelphia, Pa. "Rexblue." (For Washing Tablets in Powdered Form.) No. 24,559; June 20.
Tieberman, Julius F., Cincinnati, Ohio. "Cotton-Top." (For a Nonintoxicating Beverage.) No. 24,560; June 20.
Turlington Chemical Company, The, Baltimore, Md. "Tri-Une." (For a 3 in 1 Remedy for Tender Sweaty Feet, Perspiration Odors, Calli, and Corns.) No. 24,561; June 20.
U. S. Neckwear Co., Boston, Mass. "TyRite." (For Ladies' and Men's Ties.) No. 24,562; June 20.
Van Ess Laboratories, Inc., Chicago, Ill. "Van Ess Liquid Scalp Massage." (For Medical Preparation for the Treatment of the Hair and Scalp.) Nos. 24,563–4; June 20.
Van Ess Laboratories, Inc., Chicago, Ill. "Van Ess Special Dandruff Massage." (For Medical Preparation for the Treatment of the Hair and Scalp.) Nos. 24,565–6; June 20.
Wool, F. G., Packing Company, San Jose, Calif. "Wool's." (For Fruit Salad.) No. 24,567; June 20.
Wyman, Partridge & Co., Minneapolis, Minn. "Real Flax Dew Bleach." (For Handkerchiefs.) No. 24,568; June 20.
Yost, A., & Son, Johnston, Pa. "Sweet Wheat Bread." (For Bread.) No. 24,569; June 20.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Acme Drug Co., Flint Mich. "Cas Pirin." (For Advertising Purposes for Medicine for Colds, La Grippe, Influenza, Headache.) No. 6,154; June 20.

American Lead Pencil Company, New York, N. Y. "Venus Everpointed Pencils." (For Advertising Purposes for Lead Pencils.) No. 6,155; June 20.

Anderson, Carl T., Madison, Wis. "Encourage The Kiddies to Write and Draw." (For Advertising Purposes for Pony Desks.) No. 6,156; June 20.

Baker Brush Company, Inc., New York, N. Y. "Baker Brush." (For Advertising Purposes for Paintbrushes.) No. 6,157; June 20.

Brillo Manufacturing Company, Brooklyn, N. Y. "Brillo Makes Old Aluminum Utensils New." (For Advertising Purposes for Cleaning and Polishing.) No. 6,158; June 20.

Congress Cigar Company, Philadelphia, Pa. "La Palina the Quality Cigar Since 1896." (For Advertising Purposes for Cigars.) No. 6,159; June 20.

Cream of Wheat Co., Minneapolis, Minn. "Cream of Wheat." (For Advertising Purposes for Wheat Breakfast Food.) No. 6,161; June 20.

Cream of Wheat Co., Minneapolis, Minn. "'Where Healthy Babies Come From'." (For Advertising Purposes for Wheat Breakfast Food.) No. 6,162; June 20.

Crown Chemical Company, The, Indianapolis, Ind. "Boncilla." (For Advertising Purposes for a Beautifier.) No. 6,160; June 20.

Eaton, Crane & Pike Company, Pittsfield, Mass. "'I have written a letter of recommendation for you Céleste'." (For Advertising Purposes for Eaton's Highland Linen.) No. 6,163; June 20.

Kant-Skore Piston Company, The, Cincinnati, Ohio. "Weight Lightest Fit Tightest." (For Advertising Purposes for Pistons.) No. 6,164; June 20.

Menter Co. Inc., The, New York, N. Y. "The Menter Plan of Home Budgets." (For Advertising Purposes for an Acccount Book Called The Menter Plan of Home Budgets.) No. 6,165; June 20.

Milwaukee Paper Box Company, Milwaukee, Wis. "Made Better Antiseptic Tooth Paste." (For Advertising Purposes for Tooth Paste.) No. 6,166; June 20.

Milwaukee Paper Box Company, Milwaukee, Wis. "Fruit and Nut Bar." (For Advertising Purposes for a Fruit and Nut Bar.) No. 6,167; June 20.

Milwaukee Paper Box Company, Milwaukee, Wis. "Mercury Speed Patch." (For Advertising Purposes for a Self-Vulcanizing Rubber Repair Patch.) No. 6,168; June 20.

Off 'N' On Chain Corporation, New York, N. Y. "Off 'N' On Chains." (For Advertising Purposes for Automobile Tire Chains.) No. 6,169; June 20.

Palmolive Company, The, Milwaukee, Wis. "The Six Secrets of an Ideal Shaving Cream." (For Advertising Purposes for Shaving Cream.) No. 6,170; June 20.

Palmolive Company, The, Milwaukee, Wis. "To Fair-Minded Men." (For Advertising Purposes for Shaving Cream.) No. 6,171; June 20.

Palmolive Company, The, Milwaukee, Wis. "A Gift Cake for Every Child to Make Them Enjoy Washing." (For Advertising Purposes for Palmolive Soap.) No. 6,172; June 20.

Palmolive Company, The, Milwaukee, Wis. "Making Palmolive 3,000 Years Ago." (For Advertising Purposes for Palmolive Soap.) No. 6,173; June 20.

Palmolive Company, The, Milwaukee, Wis. "Good Business." (For Advertising Purposes for Shaving Cream.) No. 6,174; June 20.

Rockwood Manufacturing Company, The, Indianapolis, Ind. "Rockwood Paper Pulleys." (For Advertising Purposes for Power-Transmission Pulleys.) No. 6,175; June 20.

Schneider, George, Rochester, N. Y. "Knock 'em over." (For Advertising Purposes for a Game.) No. 6,176; June 20.

Seltzer, Theodore, West Hoboken, N. J. "Say Ben-Gay." (For Advertising Purposes for Baume Bengué.) No. 6,177; June 20.

Toewear Hosiery Inc., Norristown, Pa. "Toewear Facts." (For Advertising Purposes for Hosiery.) No. 6,178; June 20.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Amertex Mills, Inc., The, Bridgeport, Conn., and New York, N. Y. Pile fabrics in the piece. No. 160,849; June 20.

Ammidown, Fred D., Boston, Mass. Hair nets. No. 160,042; June 20.

Apex Coal Company, The, Fort Smith, Ark. Coal. No. 158,814; June 20.

Apparel Products Co. Inc., New York, N. Y. Ladies', men's, and boys' coats and suits, women's dresses, men's trousers and shirts. No. 148,192; June 20.

Armstrong, William A., doing business as W. A. Armstrong Paper Co., New York, N. Y. Bleached and unbleached sulphite paper. No. 162,370; June 20.

Bankers Service Company of Pennsylvania. (See Brownscombe, Victor H.)

Benedict, T. N., Mfg. Co., East Syracuse, N. Y. Silverplated tableware and articles plated with precious metal. No. 144,497; June 20.

Bengert, Ray, Kansas City, Mo. Jewelry. No. 152,982; June 20.

Bible Land Cigar Company. (See Morrier, Hormisdas.)

Bielek Manufacturing Company, Pittsburgh, Pa. Medicines. No. 151,700; June 20.

Blatz, Val., Jr., Candy Co., Milwaukee, Wis. Candy. No. 156,566; June 20.

Boorum & Pease Company, New York, N. Y. Blank books, pads, and tablets, etc. No. 151,746; June 20.

Boss Manufacturing Company, The, Kewanee, Ill., and Brooklyn, N. Y. Fabric gloves and mittens. Nos. 157,652–3; June 20.

Boulin, Camille H., doing business as Canson & Montgolfier, New York, N. Y. Handmade paper. No. 159,787; June 20.

Brown Company, Portland, Me. Paper products. No. 133,181; June 20.

Brownscombe, Victor H., doing business as Bankers Service Company of Pennsylvania, Pittsburgh, Pa. Annual publication. No. 157,826; June 20.

Bunting Publications, Inc., The, Waukegan, Ill. Monthly publication. Nos. 159,842–4; June 20.

Burton Bros. & Co., New York, N. Y. Cotton piece goods. No. 160,532; June 20.

California Central Creameries, San Francisco, Calif. Product used in preparing spraying mixtures for use on fruit trees. No. 159,850; June 20.

Canson & Montgolfier. (See Boulin, Camille H.)

Celiu-Metal Corporation, Rochester, N. Y. Cardboard toy houses and automobiles. No. 161,621; June 20.

Central Paper Company, Menasha, Wis. Gummed paper. No. 151,147; June 20.

Central West Coal & Lumber Company, Columbus, Ohio, and Seattle, Wash. Shingles. No. 148,709; June 20.

Century Cork Co., New York, N. Y. Corks. No. 156,449; June 20.

Cherry Blossom Mfg. Co., Newton, Iowa. Beverages sold as soft drinks and sirups for making the same. No. 159,922; June 20.

Cherry Blossom Mfg. Co., Newton, Iowa. Beverages sold as soft drinks and sirups for making the same. Nos. 159,926–8; June 20.

Cherry Blossom Mfg. Co., Newton, Iowa. Beverages sold as soft drinks and sirups for making same. No. 159,922; June 20.

Clayton Pharmacal Co., The. (See Runner, Earle I.)

Cohn Hall Marx Co., New York, N. Y. Cotton piece goods. Nos. 160,657–8; June 20.

Colwell, H. R., Washington, D. C. Toy animals, toy balloons, and barking and sounding toys. No. 158,695; June 20.

Dallas Ice Factory, Dallas, Tex. Ice. No. 160,931; June 20.

Deguenther, Edward J., Milwaukee, Wis. Refrigerators. No. 161,355; June 20.

Desmond, Lawrence K., doing business as L. K. Desmond, Corry, Pa. Support for fountain pens. No. 153,873; June 20.

Duplan Silk Corporation, New York, N. Y. Broad silk piece goods. No. 161,239; June 20.

Duplan Silk Corporation, New York, N. Y. Knitted, netted, and textile fabrics. Nos. 156,984–5; June 20.

Dutton, E. P., & Company, New York, N. Y. Printed books published in series. No. 160,119; June 20.

Eastman Advertising Service. (See Eastman, Arthur A.)

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Eastman, Arthur A., doing business as Eastman Advertising Service, South Bend, Ind. Monthly trade bulletin. No. 159,859; June 20.
Electro Metallurgical Company, Glen Ferris, W. Va., and Niagara Falls, N. Y. Ferrous and nonferrous metals and alloys. No. 158,706; June 20.
Elstein, Joseph, & Sons, New York, N. Y. Men's topcoats. No. 157,604; June 20.
Fawcett, Wilford H., Robbinsdale, Minn. Monthly publication. No. 159,792; June 20.
Feldman & Weinman, Baltimore, Md. Work shirts. No. 157,608; June 20.
Filmusic Company, Los Angeles, Calif. Perforated music rolls or sheets. No. 128,773; June 20.
Fleischer, Joseph, New York, N. Y. Hair nets. No. 161,547; June 20.
Florence Manufacturnig Company, Northampton, Mass. Tooth, hair, nail, flesh, and lather brushes. No. 158,707; June 20.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. Nos. 161,421–4; June 20.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. No. 161,433; June 20
Frank Foundries Corporation, Davenport, Iowa. Gray iron, malleable, and metallic castings. No. 157,418; June 20.
Frontier Bronze Corporation, Niagara Falls, N. Y. Nonferrous metal castings. No. 156,272; June 20.
Gabbe, Herman, & Bro. Inc., New York, N. Y. Furs and skins in the piece. No. 158,230; June 20.
Gebr. Zuppinger, Meilen, Switzerland. Beverages sold as a soft drink. No. 142,189; June 20.
Gibson Musical String Co., Belleville, N. J. Strings for violins, violas, tango banjos, etc. No. 148,222; June 20.
Glidden Company, The, Cleveland, Ohio. Insecticide. No. 161,025; June 20.
H & W Company, The, Newark, N. J. Corsets, corset waists, brassières, etc. No. 154,025; June 20.
Hardinge Company, New York, N. Y. Iron and steel used for lining plates for ball and pebble mills. No. 156,527; June 20.
Hedstrom-Schenck Coal Co., Chicago, Ill. Anthracite and bituminous coals. No. 162,175; June 20.
Hoey, John, & Co., San Francisco, Calif. Mattresses. No. 158,713; June 20.
Hohner, Matth, Actien-Gesellschaft, Trossingen, Germany. Accordions. No. 147,168; June 20.
Holmac, Inc., New York, N. Y. Golf balls. No. 154,364; June 20.
Houston Publishing Company, The, New York, N. Y Monthly periodical. No. 161,254; June 20.
Hunt, Albert L., Peoria, Ill. Vehicle tires, inner tubes, tire covers, etc. No. 131,214; June 20.
Hygienic Artificial Ice Co., Minneapolis, Minn. Artificial ice. No. 161,998; June 20.
Italian Supply Co., The, Lock Haven, Pa. Olive oil, tomato sauce, and macaroni. No. 158,617; June 20.
Jenkins, George O., Company, Bridgewater, Mass. Leatherboard and counterboard. No. 161,131; June 20.
John, Robert, New York, N. Y. Prints, pictures, and illustrations. No. 158,186; June 20.
Jowall Cap Works. (See Wall, Joseph.)
Kennedy, Robert S., New York, N. Y. Trade journal published quarterly. No. 159,207; June 20.
Kirkhart Electrical Co., The, Elkhart, Kans. Electrolytes. No. 158,208; June 20.
Kovac, Stephen, New Rochelle, N. Y. Hair tonics. No. 160,354; June 20.
Larkin Co. Inc., Buffalo, N. Y. Antiseptic solution and mouth wash. No. 160,068; June 20.
Lowe, Joe Co. Inc., New York, N. Y. Whipping powders or fillers used by bakers. No. 150,757; June 20.
Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. No. 161,561; June 20.
Mark Manufacturing Company, Chicago, Ill. Cup leathers. No. 152,685; June 20.
Martin's, John House, Inc., New York, N. Y. Magazines published monthly. No. 157,620; June 20.
Med-O-Lark Groves. (See Wilkins, Mary F.)
Metal and Alloy Specialties Company, Inc., Buffalo, N. Y. Nonrusting and corrosion-resisting alloy and castings made therefrom. No. 156,968; June 20.
Meyer & Strompen, San Francisco, Calif. Hair nets. No. 161,785; June 20.
Minus Pharmacal Co., St. Louis, Mo. Liquid medicinal preparation for the reduction of superfluous flesh. No. 160,072; June 20.
Mission Bead Company, Los Angeles, Calif. Cleaning compound for clothing, panama hats, and leather goods. No. 160,070; June 20.
Monger, Roy S., New York, N. Y. Monthly periodical. No. 158,940; June 20.
Morrier, Hormisdas, doing business as Bible Land Cigar Company, Portsmouth, N. H. Manufactured cigars. No. 146,790; June 20.
Nash Coffee Company, Minneapolis, Minn. Coffee. No. 152,804; June 20.
National Marine Engineers' Beneficial Association, Washington, D. C. Official journal of this organization. No. 155,111; June 20.
Neuss, Hesslein & Co. Inc., New York, N. Y. Woven cotton piece goods. No. 161,789; June 20.
New Departure Manufacturing Company, The, Bristol, Conn. Brakes for cycles, cycle hubs, and coaster brakes. No. 161,937; June 20.
New York Tribune, Inc., New York, N. Y. Newspaper column. No. 157,679; June 20.
Newcomb, James F., & Co. Inc., New York, N. Y. Monthly publication. No. 160,958; June 20.
Northwestern Yeast Company, Chicago, Ill. Medicinal vitamine products. No. 158,638; June 20.
Odeola Cabinets and Phonografs Company, New York, N. Y. Sound-reproducing machines. No. 114,578; June 20.
Painless Parker Dentist, San Francisco, Calif. Mouth washes, pyorrhea preparations, tooth paste. No. 140,963; June 20.
Philadelphia Wool Scouring and Carbonizing Company, The, Philadelphia, Pa. Wool which has been scoured, carbonized, or otherwise processed. No. 160,503; June 20.
Pittsburgh Plate Glass Company, Pittsburgh, Pa. Fungicide. No. 160,299; June 20.
Plough Chemical Company, Memphis, Tenn. Deodorant. No. 160,082; June 20.
Pogo Company, The, New York, N. Y. Jumping stick. No. 154,757; June 20.
Popular Radio, Inc., New York, N. Y. Monthly publication. No. 161,012; June 20.
Pupley, James, New York, N. Y. Preparation for promoting the growth of hair. No. 160,250; June 20.
Ramp Buildings Corporation, New York, N. Y. Magazines published monthly. No. 159,481; June 20.
Readers' Publishing Corporation, New York, N. Y. Monthly magazine. No. 160,902; June 20.
Rochon, Mathilde, Washington, D. C. Hair dyes. No. 159,981; June 20.
Rogers, Karl H., Philadelphia, Pa. Pliable bendable doll. No. 141,532; June 20.
Rosoff Sand & Gravel Corp., New York, N. Y. Washed sand and gravel. No. 158,401; June 20.
Runner, Earle I., doing business as The Clayton Pharmacal Co., Wheeling, W. Va. Vitamine compound used in the treatment of anæmic, debilitated, and weakened condition of the human system. No. 158,153; June 20.
Sardeau, Hélène, New York, N. Y. Dolls. No. 162,066; June 20.
Schranck, H. C., Co., Milwaukee, Wis. Beverages sold as soft drinks. No. 126,877; June 20.
Schuster, Carl J., Cleveland, Ohio. Beverage sold as a soft drink and sirup for making same. No. 132,453; June 20.
Scribner's, Charles, Sons, New York, N. Y. Monthly publications. No. 159,057; June 20.
Searle, G. D., and Company, Chicago, Ill. Antiseptic pharmaceutical preparations. No. 160,307; June 20.
Seed Filter & Manufacturing Co. Inc., New York, N. Y. Antisplash water filters. No. 161,282; June 20.
Seneca Knitting Company. (See Smith, Caleb.)
Shea Smith & Co., Chicago, Ill. Publications issued monthly. No. 160,263; June 20.
Smith, Caleb, doing business as Seneca Knitting Company, Seneca Falls, N. Y. Hosiery. No. 157,539; June 20.
Snaplok Company, Cleveland, Ohio. Window-light frames for vehicle tops. No. 143,367; June 20.
Staedtler, J. S., Nuremberg, Germany. Lead, ink, slate, copying, and artists' pencils, chalk, etc. No. 153,316; June 20.
Standard School Equipment Co., Louisville, Ky. School furniture and equipment. No. 157,454; June 20.
Star Company, New York, N. Y. Newspaper section. No. 159,432; June 20.
Star Sporting Goods Co., New York, N. Y. Gunning coats. No. 157,590; June 20.
Stein & Ellbogen Company, Chicago, Ill. Watches. No. 150,778; June 20.
Stiles, William W., Gretna, La. Sheet-rubber patches. No. 151,337; June 20.
Uehling Instrument Company, Paterson, N. J., and New York, N. Y. Gas filters. No. 160,569; June 20.
United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Cement such as is used in the manufacture and repairing of boots and shoes. No. 148,043; June 20.
United States Gypsum Company, Chicago, Ill. Calcined gypsum, plaster of Paris, wall plaster, etc. Nos. 159,440-1; June 20.
United States Gypsum Company, Chicago, Ill. Calcined gypsum, plaster of Paris, wall, gauging, and cement plasters. No. 159,444; June 20.
United States Gypsum Company, Chicago, Ill. Calcined gypsum, plaster of Paris, wall plaster, etc. No. 159,632; June 20.
United Stores Supply Company, Minneapolis, Minn. Powder for cleaning closet bowls. No. 158,586; June 20.
Walker, J. D., Coal Company, Brisbin, Pa. Coal. No. 160,732; June 20.
Walker Webbing Co., Providence, R. I. Shoe lacings, dress belting, galloons, braids, etc. No. 155,291; June 20.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Wall, Joseph, doing business as The Jowall Cap Works, Boston, Mass. Men's and boys' hats and caps. No. 157,644 ; June 20.

Webb Publishing Company, St. Paul, Minn. Periodicals. No. 157,975 ; June 20.

Webb Publishing Company, St. Paul, Minn. Monthly periodicals. No. 157,976 ; June 20.

Western Dental Mfg. Company Limited, The, Bristol, England. Preparations for the teeth and for the mouth. No. 158,461 ; June 20.

Whitman, Clarence, & Son, Inc., Katonah, and New York, N. Y. White and colored silk and cotton piece goods. No. 161,814 ; June 20.

Wilkins, Mary F., doing business as Med-O-Lark Groves, Minneapolis, Minn. Citrus fruits in their natural state. No. 158,497 ; June 20.

Wilson Brothers, Chicago, Ill. Handkerchiefs. No. 161,516 ; June 20.

Witcombe, McGeachin & Co., New York, N. Y. Cotton, cotton and silk, and cotton and artificial silk fabrics in the piece, made-up draperies, etc. No. 160,451 ; June 20.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 20TH DAY OF JUNE, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Acetyl isoborneol, Making. R. L. Andreau. No. 1,420,399; June 20.
Acid and carbon monoxide, Manufacturing hydrochloric. H. W. Paulus. No. 1,402,209; June 20.
Acid, Manufacture of sulphuric. C. H. MacDowell and H. H. Meyers. No. 1,420,202; June 20.
Aeroplane. W. L. Denham. No. 1,419,962; June 20.
Aeroplane braking device. J. B. Anderson. No. 1,420,509; June 20.
Agitating mechanism, Power-driven. J. B. McFerran, Jr. No. 1,402,270; June 20.
Aircraft propeller. C. S. Hall. No. 1,420,313; June 20.
Alarm: *See*—
Burglar alarm.
Ammonia oxidation. C. H. MacDowell, H. H. Myers, and W. B. Pattison. No. 1,420,201; June 20.
Amusement device. E. J. Mayer. No. 1,420,437; June 20.
Amusement device. G. W. Smutz. No. 1,420,225; June 20.
Anchorage, Expansion. J. E. Ogden. No. 1,419,979; June 20.
Animal-releasing device. N. P. Roslund. No. 1,419,989; June 20.
Anthraquinone purification. H. F. Lewis. No. 1,420,198; June 20.
Antiskid chain. R. W. Evans. No. 1,402,053; June 20.
Arch support. J. Mosher. No. 1,420,492; June 20.
Arm and hand, Artificial. A. Mantel. No. 1,420,122; June 20.
Ash ejector. E. Hahn. No. 1,420,544; June 20.
Auger bits, Producing. B. H. Daulton. No. 1,420,527; June 20.
Auto mirror, Adjustable. F. W. Rees. No. 1,420,145; June 20.
Automatic furnace. L. Garrison. No. 1,420,091; June 20.
Automobile antirattling device. H. C. Brinkerhoff. No. 1,420,077; June 20.
Automobile detachable armrest. T. H. Decker. No. 1,420,023; June 20.
Automobile heater. M. Zwickl. No. 1,420,301; June 20.
Automobile lock. O. F. Mehlin. No. 1,420,205; June 20.
Automobile producer-gas plant. J. W. Parker. No. 1,420,570; June 20.
Automobile tool. L. L. Gilbert. No. 1,419,922; June 20.
Automobile vehicles, Bonnet frame for. A. E. L. Secqueville. No. 1,420,292; June 20.
Automobile wheel. J. P. Jacobs. No. 1,420,195; June 20.
Automobiles, Safety fender for. W. and H. C. Hansen, and C. Bearby. No. 1,420,036; June 20.
Axle assemblies, Means for supporting rear-. J. R. Roth. No. 1,420,386; June 20.
Bags, Automatic opener for traveling. B. Klemer. No. 1,419,934; June 20.
Bait, Artificial. W. A. Foss. No. 1,420,422; June 20.
Bait for fishing purposes, Spinning. G. S. S. Watkins. No. 1,420,228; June 20.
Bank-protection system. W. F. Cervenka. No. 1,420,520; June 20.
Barrel-head-securing device. J. Cappel. No. 1,420,019; June 20.
Barrel lift. H. Hermelink, Jr., and R. B. Shiffner. No. 1,420,546; June 20.
Barrel tube, Working. E. Ivins. No. 1,420,551; June 20.
Basket. G. S. Griner. No. 1,420,542; June 20.
Battery: *See*—
Storage battery.
Bayonets. C. de Mauraige. No. 1,419,961; June 20.
Beading-tool retainer. C. Bush. No. 1,420,240; June 20.
Bearing, Antifriction. H. N. Parsons. No. 1,420,339; June 20.
Bearing, Dustproof ball. J. Dlesk. No. 1,420,416; June 20.
Bearing, Pull-rod. F. B. Dunlap. No. 1,420,025; June 20.
Bed lock. P. Cobb. No. 1,419,957; June 20.
Beet topper. S. A. Goodson. No. 1,420,482; June 20.
Belt fastener. J. H. Tabler. No. 1,420,588; June 20.
Belt, Nonslip. B. Allen, Jr. No. 1,420,604; June 20.
Beverages, Apparatus for the manufacture and display of. J. H. Mallon. No. 1,420,433; June 20.
Bin: *See*—
Display bin.
Binder, Loose-leaf. E. C. Moore. No. 1,420,333; June 20.
Block: *See*—
Pounding block.
Blowpipe. A. E. King. No. 1,420,107; June 20.
Board: *See*—
Game board. Ironing board.
Boilers, Making headers for tubular. J. J. Cain. No. 1,420,241; June 20.
Bolt: *See*—
Key bolt.
Bolt clamp. W. E. Brillhart. No. 1,420,519; June 20.
Bolt-finishing machine. H. Crehan. No. 1,420,410; June 20.
Bolting-up device. F. N. Hallett. No. 1,420,424; June 20.
Bookmark. W. Kieckhefer. No. 1,420,265; June 20.
Boring machine, Brush-block-. E. W. Howe. No. 1,420,104; June 20.
Bottle-capping machine. E. W. Little. No. 1,420,325; June 20.
Bottle-closure. J. Kelly. No. 1,420,320; June 20.
Bottle crate. L. H. Payne. No. 1,420,444; June 20.
Bottle, Nonrefillable. E. A. Hayden. No. 1,420,545; June 20.
Box: *See*—
Flower box. Pasteboard box.
Ice box. Safety panel box.
Journal box.
Box and wrapper, Pasteboard. H. H. Wagner. No. 1,420,000; June 20.
Box table. D. C. Klausmeyer. No. 1,420,321; June 20.
Bracket: *See*—
Mirror supporting bracket.
Brake: *See*—
Car brake. Hand brake.
Brake shoe. B. F. Miller. No. 1,420,274; June 20.
Break switch, Quick-. R. K. Mason. No. 1,420,381; June 20.
Break switch, Quick-make and quick-. R. K. Mason. No. 1,420,382; June 20.
Brassière. N. L. Fay. No. 1,420,248; June 20.
Bread-molding machine, Automatic. J. Kennedy. No. 1,420,486; June 20.
Bread-slicing machine. H. E. Bjorlin. No. 1,420,235; June 20.
Brick and manufacture, Refractory silica. O. Rebuffat. No. 1,420,284; June 20.
Brick machine, Slag-. C. T. Bray. No. 1,420,018; June 20.
Brush. R. C. McGarey. No. 1,420,563; June 20.
Building construction. H. C. Trost. No. 1,419,995; June 20.
Building element or block. E. V. Roux. No. 1,420,220; June 20.
Building partition. C. E. and A. G. Dawson. No. 1,420,473; June 20.
Bulkhead and the like. J. Childs and W. Evans. No. 1,420,305; June 20.
Burglar alarm. G. Antofilli. No. 1,420,510; June 20.
Burglar alarm. L. Brichetto. No. 1,419,954; June 20.
Burner: *See*—
Fuel burner. Gas burner.
Camera applicable to aerial photography. T. E. Moorhouse. No. 1,420,440; June 20.
Camera shutters, Device for operating. B. L. Parker. No. 1,420,137; June 20.
Cameras, Shutter attachment for moving-picture. E. M. Mueller. No. 1,420,053; June 20.
Camp table, Folding. W. B. Penland. No. 1,420,057; June 20.
Can: *See*—
Oil can.
Can-filling apparatus. A. Babendreer. No. 1,420,401; June 20.
Can-filling machine. A. Schmidt. No. 1,420,222; June 20.
Can opener. M. M. Mudd. No. 1,420,442; June 20.
Can opener. R. Z. Snyder. No. 1,420,456; June 20.
Candle. J. A. P. Erickson. No. 1,420,476; June 20.
Candle wick. W. C. Kreuzer. No. 1,420,322; June 20.
Canteen holder. R. H. Prichard. No. 1,420,143; June 20.
Cap. S. Gliedman. No. 1,420,032; June 20.
Car body, Convertible motor-. H. R. White. No. 1,420,298; June 20.
Car brake. A. F. Klasing. Nos. 1,420,552–3; June 20.
Car brakes, Apparatus for manipulating railway. A. F. Klasing. No. 1,420,554; June 20.
Car underframe. R. R. Weaver. No. 1,420,352; June 20.
Car unloader, Box-. A. E. Johnson. No. 1,420,431; June 20.

Cars and other vehicles, Rim for the wheels of motor. W. W. McRae. No. 1,420,329; June 20.
Cars, Buffer for amusement. C. F. Stillman. No. 1,420,065; June 20.
Cars, Oil-test-cock-operating means for Ford. R. D. McBrian. No. 1,420,119; June 20.
Carburetor. R. H. Taylor. No. 1,419,993; June 20.
Carburetor. W. E. Wilson. No. 1,420,356; June 20.
Carburetor control, Automatic. S. E. Foreman. No. 1,419,963; June 20.
Care-taking device. W. G. Christian. No. 1,420,242; June 20.
Carriage-lifting jack, Hydraulic. H. Rehak. No. 1,420,146; June 20.
Carrier: *See*—
Luggage carrier. Token carrier.
Tire carrier.
Case: *See*—
Check and money-order case. Toilet-article case.
Type case.
Cash-register system. G. M. Gorden. No. 1,420,311; June 20.
Cashiers' cages, Safety booth for. E. E. Dell. No. 1,419,960; June 20.
Caster. A. B. Diss. No. 1,420,415; June 20.
Caster. S. L. Hardman. No. 1,420,190; June 20.
Catalyst. C. H. MacDowell and H. H. Meyers. No. 1,420,203; June 20.
Catalyzer and producing the same. W. D. Richardson. No. 1,419,986; June 20.
Celluloid, Production of noninflammable. A. Eichengrün. No. 1,420,028; June 20.
Cement interlocking plate. O. Faber. No. 1,420,246; June 20.
Ceramic masses into tiles, disks and similar bodies, Machine for working up. E. Gerbel. No. 1,420,093; June 20.
Chair: *See*—
Collapsible chair. Rail-joint chair.
Chain fastener. R. W. Evans. No. 1,420,372; June 20.
Chair. J. C. Schouten. No. 1,419,947; June 20.
Chairs, Sanitary tray for high. T. M. Rappeline. No. 1,420,061; June 20.
Check and money-order case. G. Henry. No. 1,420,260; June 20.
Chemical reactions, Apparatus for use in effecting. H. W. Paulus. Nos. 1,420,210–11; June 20.
Chuck and tool holder. T. C. Foley. No. 1,420,029; June 20.
Churn. T. Flory. No. 1,420,537; June 20.
Clamp: *See*—
Bolt clamp. Self-supporting clamp.
Rope clamp.
Clamping ear. G. W. Bower. No. 1,420,408; June 20.
Cleaner: *See*—
Shoe cleaner. Vacuum cleaner.
Shovel cleaner. Windshield cleaner.
Cleaning device. S. L. Sellars. No. 1,419,948; June 20.
Clock. M. Horn. No. 1,420,549; June 20.
Clock mounting. E. E. Simons. No. 1,420,583; June 20.
Clockworks. M. O. Rose. No. 1,420,447; June 20.
Closet, Dry. N. D. Flowers. No. 1,420,420; June 20.
Cloth, Method and apparatus for producing weftless. J. A. McLane. No. 1,420,271; June 20.
Clothesline attachment. W. Budde. No. 1,420,178; June 20.
Clothesline fastener. G. B. Ely. No. 1,420,370; June 20.
Clutch mechanism, Friction-. W. L. Pierce. No. 1,420,214; June 20.
Coal, Cleaning. W. E. Trent. No. 1,420,163; June 20.
Cock, Gas. H. Margulies. No. 1,420,434; June 20
Coin wrapper. J. J. Reinhold. No. 1,420,285; June 20.
Collapsible chair. A. Gutter. No. 1,420,095; June 20.
Collars and cuffs, Multiply interwoven fabric for. F. B. Twining. No. 1,420,504; June 20.
Colter adjustment, Clamp principally for. L. H. Schulze. No. 1,420,451; June 20.
Combination lock. H. M. Hainline. No. 1,420,483; June 20.
Combination lock, Electric. H. Rayner. No. 1,420,575; June 20.
Commutator. O. A. Eckre. No. 1,420,026; June 20.
Compressor or rotary engine, Rotary. P. L. Bowser. No. 1,419,915; June 20.
Compressor or rotary engine, Rotary. J. Joynt and P. L. Bowser. No. 1,419,930; June 20.
Concrete, Method and means for constructing forms for. R. Trost. No. 1,420,166; June 20.
Concrete pole, Reenforced. J. Payne. No. 1,420,571; June 20.
Concrete wall, Reenforced hollow. M. Y. Charles. No. 1,420,521; June 20.
Condenser, Variable electrostatic. G. F. Johnson. No. 1,420,485; June 20.
Conduit or cable clamp and bridle ring. J. Karitzky. Nos. 1,419,931–2; June 20.
Confection-coating machine. V. Matranga. No. 1,420,436; June 20.
Controlling mechanism. L. B. Swift. No. 1,420,348; June 20.
Conveyer apparatus, Pneumatic. G. Bernert. No. 1,420,015; June 20.
Cooker. R. J. McBrien. No. 1,420,562; June 20.
Copying apparatus. L. F. Morse. No. 1,420,491; June 20.
Core, Expansible. H. P. Koenneke and W. F. Miller. No. 1,420,488; June 20.
Corn planter, Wireless. C. J. Arnold. No. 1,420,465; June 20.
Corrugating machine. A. Rubin. No. 1,420,060; June 20.
Cots and other articles, Shoe for the legs of metal. M. J. Wujek. No. 1,420,602; June 20.
Covers, Device for raising and supporting. F. A. Spencer. No. 1,420,347; June 20.
Cradle. H. J. Nisle. No. 1,420,134; June 20.
Cradle rocker. R. Shea. No. 1,420,582; June 20.
Creeper. B. L. Herrick. No. 1,420,101; June 20.
Crusher and pulverizer. W. M. Davidson. No. 1,420,021; June 20.
Crusher and pulverizer. A. Gillespie. No. 1,420,031; June 20.
Crusher and pulverizer. M. F. Williams. No. 1,420,354; June 20.
Cultivating implement. C. J. Binmore. No. 1,419,953; June 20.
Current interrupter. C. E. Bennett. No. 1,420,515; June 20.
Current relay, Alternating-. O. Thompson. No. 1,420,067; June 20.
Curtain. R. Snoeck. No. 1,420,455; June 20.
Curtain fastener. C. A. Beemer. No. 1,420,177; June 20.
Cutter head and gauge. F. Vogel. No. 1,420,068; June 20.
Cutting dies, Making metal-base. J. F. Murphy. No. 1,420,276; June 20.
Cycle, Motor. J. A. Peters. No. 1,420,498; June 20.
Danger signal. F. Shuman. No. 1,420,345; June 20.
Decorticating machine, Fibrous plant. F. O'Neill, Jr. No. 1,420,136; June 20.
Derail. S. W. Hayes. No. 1,420,425; June 20.
Derail, Hand-operated. S. W. Hayes. No. 1,420,426; June 20.
Derailer. J. Zawodny. No. 1,420,357; June 20.
Desk book support. E. L. Moore. No. 1,420,439; June 20.
Desk, School. D. F. Beaver. No. 1,420,404; June 20.
Desuperheater. L. J. Schaedle. No. 1,420,344; June 20.
Dichlorethylene, Manufacture of. F. Kaufler. No. 1,419,969; June 20.
Die and making same, Diamond. A. Simons. No. 1,420,223; June 20.
Dies, Making diamond. A. Simons. No. 1,420,224; June 20.
Diestock. F. J. Martin. No. 1,419,939; June 20.
Differential flotation separator. W. H. Peck. No. 1,420,139; June 20.
Direction indicator. J. A. White. No. 1,420,353; June 20.
Dishwashing machine. A. M. Dow. No. 1,420,418; June 20.
Disk sharpener. T. Nash. No. 1,420,568; June 20.
Disk wheel. G. E. Harvey. No. 1,420,097; June 20.
Disk wheel. G. H. Palmer. No. 1,420,337; June 20.
Dispensing apparatus. J. Chandler. No. 1,420,080; June 20.
Display bin. F. F. Wear. No. 1,420,069; June 20.
Door construction, Garage-. P. Frantz. No. 1,420,087; June 20.
Dough press. D. Tabucchi. No. 1,420,066; June 20.
Drier. T. P. Pye. No. 1,420,144; June 20.
Drill. C. H. Dockham. No. 1,420,417; June 20.
Drive mechanism, Front-wheel. T. H. Schaefer. No. 1,420,387; June 20.
Drum. W. H. Baldwin and C. T. Plummer. No. 1,420,233; June 20.
Drying kiln. R. Thelen. No. 1,420,296; June 20.
Easel, Display. L. E. Sadler. No. 1,419,944; June 20.
Eggs for storage, Preparing. V. Clairemont. No. 1,419,956; June 20.
Ejector. E. Hahn. No. 1,420,543; June 20.
Electric furnace. K. Leander. No. 1,420,561; June 20.
Electric heater. U. D. Straw. No. 1,420,160; June 20.
Electric switch. H. B. Cornish. No. 1,420,472; June 20.
Electric switch. A. H. Nero. No. 1,420,569; June 20.
Electric-wave transmission. J. H. Hammond, Jr. No. 1,420,254; June 20.
Electrical conductors or the like, Apparatus for drying the covering of. J. P. Devine. No. 1,420,367; June 20.
Electrical distribution, System of. C. W. Place. No. 1,420,385; June 20.
Electrical heater. F. Kuhn and J. A. Hand. No. 1,419,935; June 20.
Electrolytic cell. J. Harris. No. 1,420,037; June 20.
Electrolytic reduction and oxidation, Method of and apparatus for. H. W. Paulus. No. 1,420,212; June 20.
Elevator. C. S. Wright. No. 1,420,010; June 20.
Engine: *See*—
Internal-combustion engine. Rotary engine.
Engine lubricator. S. J. Matthews. No. 1,420,125; June 20.
Engine stand and burning-in machine. H. Behrens. No. 1,420,074; June 20.
Engine ventilator. E. Currie. No. 1,420,411; June 20.
Engines, Automatic air-brake valve for automobile. L. J. Babcock. No. 1,420,073; June 20.
Engines, Auxiliary air feed for explosive. J. Scalco. No. 1,420,288; June 20.
Engines, Auxiliary air-inlet device for internal-combustion. P. J. Weber. No. 1,420,615; June 20.

Engines, Carburetor for internal-combustion. N. Garoff. No. 1,420,090; June 20.
Engines, Compression relief system for star-shaped. P. J. R. Postel-Vinay. No. 1,420,282; June 20.
Envelope. Y. Burgess. No. 1,420,470; June 20.
Evaporator, feed water heater, and the like. H. C. Davis. No. 1,420,366; June 20.
Expansion joint. F. H. Richards. No. 1,420,217; June 20.
Explosive composition. L. O. Bryan. No. 1,420,364; June 20.
Fabric-blank-folding machine. A. W. Gavitt. No. 1,420,480; June 20.
Fabric dispensing and measuring machine. S. R. Anderson and L. F. Campbell. No. 1,420,607; June 20.
Fan. J. E. Shearer. No. 1,420,155; June 20.
Fan, Folding. H. C. Ohm. No. 1,420,496; June 20.
Fastening device. E. K. Day. No. 1,420,528; June 20.
Faucets, Pot-holding attachment for. H. L. Lechler. No. 1,420,197; June 20.
Feeder. J. C. Schaffer. No. 1,419,946; June 20.
Feeder, Stock. E. C. Shaw. No. 1,419,950; June 20.
Feeding attachment. D. D. Long. No. 1,420,200; June 20.
Fence post. A. Peleskey. No. 1,420,140; June 20.
Fender: *See*—
Vehicle fender.
Fertilizer and making the same. H. A. Webster. No. 1,420,596; June 20.
Fish net. G. T. Warren, Sr. No. 1,420,396; June 20.
Fish screen. J. L. Walker. No. 1,420,508; June 20.
Fishing-line reel. C. Hertenstein. No. 1,420,428; June 20.
Flanging machine. R. O. Hendrickson and K. E. Moree. No. 1,420,427; June 20.
Flower box. A. Hassig. No. 1,420,191; June 20.
Flue cap. J. K. Pennington. No. 1,420,141; June 20.
Fluid trap. J. P. Lippert. No. 1,420,045; June 20.
Flume gratings, Device for cleaning. W. O. Randlett. No. 1,420,283; June 20.
Fluoroscopic unit, Vertical. H. F. Waite. No. 1,420,395; June 20.
Fly swatter. J. C. Field. No. 1,420,536; June 20.
Flying machine. J. G. Faust. No. 1,420,247; June 20.
Folding machine. A. D. Elliott. Nos. 1,420,474–5; June 20.
Food. Apparatus for preparing stock. H. S. Wikel and M. F. Thatcher. No. 1,420,008; June 20.
Food, Preserving. A. B. A. Fich. No. 1,420,373; June 20.
Foot, Artificial. G. E. and W. L. Marks. No. 1,420,330; June 20.
Footwear. J. F. Teehan. No. 1,420,461; June 20.
Forming machine. C. M. Brehm. No. 1,420,468; June 20.
Frame: *See*—
Sash frame.
Friction device. C. J. Pihl. No. 1,420,281; June 20.
Fruit jar. Crushed-. A. W. Eichman. No. 1,419,921; June 20.
Fruits, Tool for sectionalizing citrus. R. B. Polk. No. 1,420,341; June 20.
Fuel burner, Liquid-. J. Wegman. No. 1,420,003; June 20.
Fuel, Liquid. A. A. Backhaus. No. 1,419,910; June 20.
Fuel mixer. M. L. Packer. No. 1,420,277; June 20.
Furnace: *See*—
Automatic furnace. Melting furnace.
Electric furnace.
Furnace. R. Marx. No. 1,420,204; June 20.
Furnace. C. D. Mosher. No. 1,420,441; June 20.
Furnaces, Conveying apparatus for annealing. G. W. and G. M. Lange. No. 1,420,115; June 20.
Fuse, Supersensitive. C. G. Young. No. 1,420,300; June 20.
Galley, One-piece metallic. H. W. Bolens. No. 1,420,363; June 20.
Game. W. W. Ayre. No. 1,420,400; June 20.
Game apparatus. L. M. Adams. No. 1,420,230; June 20.
Game board. M. C. Neuner. No. 1,420,334; June 20.
Garage construction. B. F. Mullaney. No. 1,420,494; June 20.
Garden tool. J. E. Gilson. No. 1,420,423; June 20.
Garment, Child's. S. Ballin. No. 1,420,176; June 20.
Garter, Man's. M. B. Hammond and H. H. Taylor. No. 1,419,924; June 20.
Gas burner. A. Beler. No. 1,420,405; June 20.
Gas, Method of and apparatus for manufacturing. A. F. Kersting. No. 1,420,041; June 20.
Gasifier. L. J. May. No. 1,420,616; June 20.
Gate: *See*—
Railway gate.
Gear, Speedometer driving. E. D. Myers. No. 1,420,054; June 20.
Gear, Transmission. C. Bearens. No. 1,420,514; June 20.
Gearing, Alternating rotary. F. E. Williamson. No. 1,420,599; June 20.
Gin or linter saw teeth, Rotary cutter for forming or renewing. W. H. Camp and R. H. Butters. No. 1,419,917; June 20.
Gland, Ring-oiled. W. B. Sparks. No. 1,420,585; June 20.
Glass furnaces, Automatic electric heating device for. W. G. Clark. No. 1,420,181; June 20.
Gluing clamp and drier. F. Diehl. No. 1,420,244; June 20.
Graph, Flexible. R. E. Fox. No. 1,420,249; June 20.
Graphite, Producing. T. F. Baily. No. 1,420,512; June 20.
Grater. K. L. Bonin. No. 1,420,017; June 20.
Grid resistance, Variable. A. R. Goodwin. No. 1,420,189; June 20.
Grinder-bar cage. M. F. Williams. No. 1,420,355; June 20.
Grinding-machine attachment. H. E. Rintoul. No. 1,420,286; June 20.
Gun. H. J. Johnson. No. 1,419,968; June 20.
Hair, Method and apparatus for waving. M. Kayser. No. 1,419,933; June 20.
Hand brake. W. H. Sauvage. Nos. 1,420,150–1; June 20.
Handle: *See*—
Saw handle. Wrench handle.
Hat holder. W. Sands. No. 1,419,945; June 20.
Hatpin. C. E. Rombough. No. 1,420,500; June 20.
Hay-stacker attachment. C. E. Hilton. No. 1,420,548; June 20.
Headlight, Movable. W. H. McLeod. No. 1,420,564; June 20.
Headlight, Vehicle. O. J. Reickert. No. 1,419,942; June 20.
Heater: *See*—
Electric heater. Water heater.
Electrical heater.
Heating apparatus. E. H. Kennedy. No. 1,420,264; June 20.
Hinge. P. Goblet. No. 1,420,481; June 20.
Hinge, Concealed. N. J. Lundeen. No. 1,420,326; June 20.
Hoisting materials, Apparatus for. H. S. Gardner. No. 1,420,310; June 20.
Hook. R. J. Kent. No. 1,420,487; June 20.
Horses, Apparatus for use in shoeing. A. Szabo. No. 1,420,349; June 20.
Horseshoe blanks, Machine for making heels on. E. Boone. No. 1,420,517; June 20.
Horseshoe nonskid device. E. C. W. Meyer. No. 1,420,331; June 20.
Horseshoes, Making heeled. E. Boone. No. 1,420,518; June 20.
Hydration apparatus. J. C. Schaffer. No. 1,420,153; June 20.
Hydroaeroplane. J. B. Anderson. No. 1,420,606; June 20.
Hydroaeroplane. G. H. Curtiss. No. 1,420,609; June 20.
Hydroaeroplane off the water into the air, Getting a. G. H. Curtiss. No. 1,420,610; June 20.
Ice box, Butcher's. E. Friedrich. No. 1,420,088; June 20.
Igniting apparatus. C. E. Pearson. No. 1,420,340; June 20.
Illuminating means, Aisle-. L. Roth. No. 1,420,059; June 20.
Incubator. M. T. Glaeser. No. 1,420,092; June 20.
Indicator: *See*—
Direction indicator.
Ink. E. E. Schmidt. No. 1,420,289; June 20.
Insulator, Splice and sectional. Z. Grass. No. 1,420,541; June 20.
Internal-combustion engine. A. J. Bohman. No. 1,420,236; June 20.
Internal-combustion engine. S. L. G. Knox. No. 1,420,266; June 20.
Internal-combustion-engine fuel. M. C. Whitaker. Nos. 1,420,006–7; June 20.
Iron from its ores, Extracting. A. J. Moxham. Nos. 1,420,128–9; June 20.
Iron, titanium, and vanadium, Treating minerals containing. B. P. F. Kjellberg. No. 1,419,971; June 20.
Iron, Treating ore to produce pure. A. J. Moxham. No. 1,420,127; June 20.
Ironing board. W. W. Milan. No. 1,420,206; June 20.
Ironing-board cloths, Clamp for. B. Ehrmans, S. and C. M. Johanson, and P. M. Peterson. No. 1,420,027; June 20.
Jack: *See*—
Carriage-lifting jack. Pump jack.
Jack. G. F. Kuehn. No. 1,420,114; June 20.
Jack. G. F. Kuehn and L. W. Rosenthal. No. 1,420,113; June 20.
Jar: *See*—
Fruit jar.
Jar lifter. A. May. No. 1,420,273; June 20.
Jewelry container. L. E. Baer. No. 1,420,232; June 20.
Joint: *See*—
Expansion joint. Rail joint.
Journal box. W. C. Skeels. No. 1,420,156; June 20.
Key bolt. A. H. Weston and J. Zilliox. No. 1,420,005; June 20.
Key holder. C. L. Oberlander. No. 1,420,335; June 20.
Key-seating machine. C. Winkler. No. 1,420,600; June 20.
Kiln: *See*—
Drying kiln.
Knife handles and blades, Connection for. J. A. Richard. No. 1,420,342; June 20.
Knitting machines, Yarn control for. W. P. Drumheller. No. 1,420,530; June 20.
Laces, Adjustable tip for corset and shoe. I. B. Ross. No. 1,420,219; June 20.
Lamp, Acetylene miner's. C. H. Neusiis. No. 1,420,133; June 20.
Lamp, Electric pocket. A. Vogt Geb. Szubert. No. 1,420,167; June 20.
Lamp for vehicles, Driving. D. C. Sharp and W. R. Diehl. No. 1,419,949; June 20.
Lamp support. J. Berge. No. 1,420,075; June 20.

Lamps, Vehicular and other. W. T. Coulson. No. 1,420,524; June 20.
Lasting machine. A. Perri. No. 1,420,572; June 20.
Lathe-tool holder. W. O. Wille. No. 1,420,171; June 20.
Lead-joint runner. J. A. Spencer. No. 1,420,586; June 20.
Leafed article. G. S. Lewis. No. 1,420,324; June 20.
Lifeboat. W. Stewart. No. 1,420,459; June 20.
Lifter: *See*—
Jar lifter.
Lifting device. A. F. Klasing. No. 1,420,555; June 20.
Lifting mechanism. A. F. Klasing. No. 1,420,556; June 20.
Light-shading device. H. E. Owen. No. 1,420,443; June 20.
Lighting fixture. A. Dvorak. No. 1,419,920; June 20.
Liquid-dispensing machine. C. O. McCasland. No. 1,420,327; June 20.
Liquids, Apparatus for mixing. W. M. Calkins. No. 1,420,079; June 20.
Liquids, Method and apparatus for treating. D. G. MacGregor, G. B. Millen, and J. C. W. Stanley. No. 1,420,046; June 20.
Loading machine. W. E. Moody. No. 1,420,207; June 20.
Loading machines, Wad bushing for. F. W. Olin. No. 1,419,941; June 20.
Lock: *See*—
Automobile lock. Combination lock.
Bed lock. Window lock.
Lock. R. De Sevo. No. 1,420,186; June 20.
Lock. C. Pike. No. 1,420,215; June 20.
Locomotive boilers, Means for effecting draft in. F. Ljungström. No. 1,420,380; June 20.
Locomotive shed or the like. N. G. H. Frenne. No. 1,419,964; June 20.
Loom feeler mechanism. A. R. Dillaber. No. 1,420,529; June 20.
Loom harness stop motion. H. M. Smith. No. 1,420,390; June 20.
Looms, Filling-feeler mechanism for automatic. O. Landry. No. 1,420,560; June 20.
Lubricating nipples, Cleaning implement for. C. W. Manzel. No. 1,420,123; June 20.
Lubricating system, Splash. L. M. and M. A. Endres. No. 1,420,083; June 20.
Luggage carrier. R. H. Prichard. No. 1,420,445; June 20.
Lumber to be cut, Device for holding. M. T. Richards. No. 1,420,218; June 20.
Lunch kit. E. H. Williamson and T. N. Richardson. No. 1,420,598; June 20.
Machine tools, elevators, etc., Reverse pulley for. B. W. Smith. No. 1,420,502; June 20.
Mail-pouch catcher, Automatic. R. Frick. No. 1,420,374; June 20.
Mandrel, Self-gripping. E. O. Goordman. (Reissue.) No. 15,390; June 20.
Manure loader. B. A. McAllister. No. 1,420,118; June 20.
Marking machine. E. Douglas. No. 1,420,187; June 20.
Massage apparatus. J. A. Mashek. No. 1,420,049; June 20.
Mast or pole together, Means for securing the sections of a. F. Jaeckle and P. Mehlhorn. No. 1,420,430; June 20.
Matchmaking machine. V. von Czerweny and E. Blümel. No. 1,419,999; June 20.
Mattress. F. F. Schmitt. No. 1,420,450; June 20.
Measuring and computing machine. A. Vanderveld. No. 1,420,612; June 20.
Measuring apparatus, Angle-. S. P. Alonso. No. 1,420,175; June 20.
Measuring instrument. J. Hutchins. No. 1,420,105; June 20.
Mechanical movement. M. L. Barbeau and F. S. Weber. No. 1,420,360; June 20.
Melting furnace. A. J. Grindle. No. 1,420,312; June 20.
Metal containers, Machine for refinishing. T. A. Jackson. No. 1,419,929; June 20.
Metal-routing machine. G. L. Kelley. No. 1,420,319; June 20.
Metal wheel. M. Lachman. No. 1,420,432; June 20.
Metals from their ores, Extracting. A. J. Moxham. No. 1,420,130; June 20.
Milk cans, Machine for ironing. W. J. Wachowitz. No. 1,420,506; June 20.
Milking-machine pulsator. R. B. Forsyth. No. 1,420,421; June 20.
Mill: *See*—
Tube rolling mill.
Mineral particles of different degrees of specific gravity, Separating mixed. W. H. Peck. No. 1,420,138; June 20.
Mirror-supporting bracket. W. La Hodny. No. 1,420,268; June 20.
Mixer: *See*—
Fuel mixer.
Mold and making same. R. F. Knight. No. 1,419,972; June 20.
Mop. F. B. Casmire. No. 1,420,180; June 20.
Mop. H. D. Cowden. No. 1,420,525; June 20.
Mop. J. S. Welch. No. 1,420,169; June 20.
Motion, Take-up. F. E. Valois. No. 1,419,996; June 20.
Motor: *See*—
Wave motor.
Motor starters, Mainspring-winding mechanism for. I. J. Maha. No. 1,420,120; June 20.
Mouth speculum. J. J. Moyer. No. 1,420,493; June 20.
Mower and clippers, Lawn. V. P. Drake. No. 1,420,309; June 20.
Mower, roller, and the like, Power-driven lawn. G. F. Ball. No. 1,419,916; June 20.
Musical instruments, Pedal-operated exhaust mechanism for automatic. G. P. Brand. No. 1,420,238; June 20.
Nail. J. H. Pope. No. 1,419,981; June 20.
Noisemaker. A. L. Girard. No. 1,419,923; June 20.
Nutcracker. I. Isaachsen. No. 1,420,263; June 20.
Oil-burning apparatus. C. D. Mosher. No. 1,420,208; June 20.
Oil can. J. M. Rohrer. No. 1,419,988; June 20.
Oil-well apparatus, Pitman connection for. E. E. Greve. No. 1,420,033; June 20.
Oven, Combined proving and baking. H. Hilenbrant. No. 1,420,102; June 20.
Oven for vulcanizing, baking, and other uses. K. L. Emmons. No. 1,420,371; June 20.
Oven tray or carriage, Wheeled. G. Mueller. No. 1,420,567; June 20.
Oxalate, Manufacture of. H. W. Paulus. No. 1,420,213; June 20.
Oxides of nitrogen in sulphuric-acid manufacture, Recovery of. A. M. Fairlie. No. 1,420,477; June 20.
Packing. F. Hodgkinson. No. 1,419,927; June 20.
Padlock, Safety. W. Reichstein. No. 1,420,578; June 20.
Paper, cardboard, artificial leather and the like from peat, Manufacture of pulp for. A. L. Burlin. No. 1,420,303; June 20.
Paper-container handle. W. W. Shorday. No. 1,420,453; June 20.
Paper files, Transfer tool for. B. F. Merritt. No. 1,420,050; June 20.
Paper holder, Toilet-. C. Bash. No. 1,420,403; June 20.
Paper machine. J. O'Hara. No. 1,420,135; June 20.
Paper-machine driers, Attachment for. J. W. Smith. No. 1,420,454; June 20.
Paper material and composition for treating the same. W. L. Wright. No. 1,420,173; June 20.
Paper product and making the same. E. G. Acheson. No. 1,419,951; June 20.
Paper-roll mounting. J. H. Reedy. Nos. 1,419,982–3; June 20.
Paper-stock-treating machine. M. C. J. Billingham. No. 1,420,362; June 20.
Pasteboard box, Folding. J. Wagner. No. 1,420,001; June 20.
Pastry, Apparatus for making cup. H. T. Ingram. No. 1,420,378; June 20.
Pencil. L. J. Most. No. 1,420,275; June 20.
Pencil-sharpener support. A. L. Talbott. No. 1,420,589; June 20.
Phonograph. N. H. Holland. No. 1,420,316; June 20.
Phonograph. R. H. Manson. No. 1,419,938; June 20.
Phonograph reproducer. B. B. Blood. No. 1,419,913; June 20.
Phonographs, Stop device for. B. B. Blood. No. 1,419,914; June 20.
Photochemical process. W. O. Snelling. No. 1,420,346; June 20.
Photographic device. A. G. Hague. No. 1,420,096; June 20.
Photographic films, Reel for. H. G. Oliver. No. 1,420,056; June 20.
Piano players, Automatic record rewind and replay mechanism for. H. A. and B. R. Van Valkenburg. No. 1,420,594; June 20.
Pie-plate attachment. J. Bakken. No. 1,420,466; June 20.
Pinion-shaft housing. V. W. Pagé. No. 1,420,497; June 20.
Pipe: *See*—
Tobacco pipe.
Pipe-bending device. J. J. O'Reilly. No. 1,420,336; June 20.
Pipe-cutting-off machine. J. B. Ladd. No. 1,419,936; June 20.
Pipe grip. W. H. Edwards. No. 1,420,532; June 20.
Pipe wrench. H. F. Robins. No. 1,420,058; June 20.
Pipes, Device for unscrewing and drawing. G. V. Lewis. No. 1,420,044; June 20.
Piston. K. D. Holland. No. 1,419,928; June 20.
Piston for internal-combustion engines. F. O. Benoist. No. 1,420,014; June 20.
Piston locator. A. Kligge. No. 1,420,110; June 20.
Piston ring. T. H. E. Bohlmann. No. 1,420,406; June 20.
Piston rings, Device for applying. H. S. Waldron. No. 1,420,507; June 20.
Plant-dusting machine. J. H. Wright. No. 1,420,601; June 20.
Planter marking device. H. Jones. No. 1,420,550; June 20.
Planting mechanism. C. E. White and G. Carlson. No. 1,420,170; June 20.
Plow, Convertible hillside. R. H. Crummett. No. 1,420,526; June 20.
Plow point. W. O. Douglass. No. 1,420,024; June 20.
Plow, Sulky. C. Kinney. No. 1,420,108; June 20.

Plow, Tractor. B. E. Reed and J. E. Clippinger. No. 1,420,576; June 20.
Polishing apparatus. B. C. Skinner. No. 1,420,062; June 20.
Pounding block, Household. E. H. Rehn and E. A. Tousley. No. 1,420,577; June 20.
Press: *See*—
Dough press.
Printing. T. S. Fox. No. 1,420,086; June 20.
Printing presses, Feed table for. F. S. English. No. 1,420,084; June 20.
Protector. C. F. Bennett. No. 1,420,361; June 20.
Pump. J. P. Montgomery. No. 1,420,052; June 20.
Pump jack. W. C. Reese. No. 1,419,984; June 20.
Punching jig. L. Goehr. No. 1,420,252; June 20.
Purifying materials. W. F. Trent. Nos. 1,420,163–5; June 20.
Rabble device, Mechanical. L. B. Skinner. No. 1,420,501; June 20.
Rack: *See*—
Wardrobe rack.
Radiator. A. L. Taute. No. 1,420,590; June 20.
Radiator funnel. W. E. Abbott. No. 1,420,011; June 20.
Radiator funnel. G. A. Horstkotte. No. 1,420,039; June 20.
Radio apparatus, Combined knob and dial for. R. W. Tait. No. 1,420,295; June 20.
Radiocontrol of moving bodies, System for the. J. H. Hammond, Jr. No. 1,420,258; June 20.
Radiotransmission systems, Antenna for. J. H. Hammond, Jr. No. 1,420,255; June 20.
Rail. D. A. Pry. No. 1,420,216; June 20.
Rail and wheel tread. C. E. Scott. No. 1,420,389; June 20.
Rail-bending device. K. Bye and P. Werle. No. 1,420,179; June 20.
Rail joint. J. A. Lewis and L. L. Rew. No. 1,419,973; June 20.
Rail-joint chair. J. J. Markovich. No. 1,420,566; June 20.
Rail-joint, Temporary. L. A. Welch. No. 1,420,070; June 20.
Rail-tie plate. J. T. Walker. No. 1,420,168; June 20.
Railway crossing. B. E. Wilson. (Reissue.) No. 15,391; June 20.
Railway gate, Automatically-operated. J. Némety. No. 1,420,132; June 20.
Railway rolling stock, Buffer for. D. C. Davis. No. 1,420,183; June 20.
Range, Combined gas and coal. F. G. Nicolaus and J. Roy. No. 1,420,495; June 20.
Rat guard. A. Cohen. No. 1,420,243; June 20.
Receptacle. M. E. Smith. No. 1,420,293; June 20.
Receptacle, Refuse. O. Sweet. No. 1,420,391; June 20.
Reel: *See*—
Fishing line reel. Trolley reel.
Reel. J. B. Green. No. 1,420,994; June 20.
Resilient filler. J. F. Stanfield. No. 1,420,158; June 20.
Rifle, Multimagazine self-locking. J. Carter. No. 1,420,471; June 20.
Ring: *See*—
Piston ring.
Road antiwashing construction. T. H. Farrell. No. 1,420,535; June 20.
Road drag. E. S. Anderson. No. 1,420,605; June 20.
Rock-cutting machine. F. J. Palma. No. 1,419,980; June 20.
Rope clamp. E. E. Greve. No. 1,420,034; June 20.
Rotary engine. F. D. Wilson. No. 1,420,009; June 20.
Rubber balls and the like, Painting. F. A. Cigol and L. D. Villa. No. 1,420,306; June 20.
Rubber nipples, Method of and apparatus for making. R. Sanderson. No. 1,420,287; June 20.
Rubber type. H. H. Hellesoe. No. 1,420,376; June 20.
Safety panel box. H. F. Krantz. No. 1,420,111; June 20.
Sanding machine. L. Miller. No. 1,420,438; June 20.
Sash frame. F. Hauser. No. 1,420,099; June 20.
Sash frames, Ventilator for metallic. F. Hauser. No. 1,420,100; June 20.
Sausage-linking machine. L. Reisfeld. No. 1,419,985; June 20.
Saw dressing and gauging tool. J. C. Holburn. No. 1,420,547; June 20.
Saw handle. R. W. Scott. No. 1,420,291; June 20.
Saw holder, Hack-. F. Hickenlooper. No. 1,420,484; June 20.
Saw set. A. Manhart. No. 1,420,489; June 20.
Screen: *See*—
Fish screen.
Screw-cutting machine. J. A. Becher. No. 1,420,013; June 20.
Screw heads and nail heads, Self-luminous marker for. A. V. T. Day. No. 1,420,185; June 20.
Seal, Container. R. Baer. No. 1,419,912; June 20.
Selective receiving system. H. W. Nichols. No. 1,420,055; June 20.
Self-starter. H. Mallard and H. C. White. No. 1,420,121; June 20.
Self-supporting clamp. C. C. Roberts. No. 1,420,147; June 20.
Separating machine. J. E. Titchmarsh. No. 1,420,593; June 20.
Separator: *See*—
Differential flotation separator.
Sewage disposal. W. Gavett. No. 1,420,250; June 20.
Sewing machine. A. R. Schoenky. No. 1,420,580; June 20.
Sewing-machine attachment. A. H. De Voe. No. 1,420,414; June 20.
Sewing-machine presser-lifting mechanism. A. H. De Voe. No. 1,420,413; June 20.
Sewing machine, Wax-thread. L. E. Topham. No. 1,419,994; June 20.
Sewing machines, Looper mechanism for shoe-. F. E. Valois. No. 1,419,997; June 20.
Shackle, chain coupling, or the like. J. McLoughlin. No. 1,419,974; June 20.
Sharpener, Pencil. A. J. Funsch. No. 1,420,539; June 20.
Sheet-feeding machine. H. Steinmetz. No. 1,420,458; June 20.
Sheet metal, Apparatus for producing fluted columns of. W. Andrew. No. 1,420,608; June 20.
Sheet metal, Device for smoothing. J. C. Stiles. No. 1,420,064; June 20.
Sheet-metal packs, Opening. C. J. Angstrom. No. 1,420,359; June 20.
Shipping receptacle. C. P. Tolman. No. 1,420,463; June 20.
Shock absorber. R. H. Hassler. No. 1,420,098; June 20.
Shock absorber. F. J. Macklin. No. 1,420,047; June 20.
Shoe cleaner, Automatic. A. C. Gales. No. 1,420,375; June 20.
Shoe-polishing machine. S. Giandalia. No. 1,420,540; June 20.
Shoe, process and making same, and shoe-part fastener. F. E. Valois. No. 1,419,998; June 20.
Shovel cleaner. A. M. Roat. No. 1,419,987; June 20.
Sifter. E. G. Dalton. No. 1,420,412; June 20.
Sign, Self-righting desk. C. Zimmerli. No. 1,420,603; June 20.
Signal: *See*—
Danger signal. Vehicle signal.
Traffic signal.
Signal system. H. C. Ford. No. 1,420,030; June 20.
Signaling apparatus. J. M. Roberts. No. 1,420,618; June 20.
Skirt. A. M. Smith. No. 1,419,990; June 20.
Skylights, Adjustable illumination device for. L. X. Champeau. No. 1,419,918; June 20.
Slack adjuster. W. H. Sauvage. No. 1,420,152; June 20.
Sleigh, Motor. J. A. Lacasse. No. 1,420,267; June 20.
Smoking appliance. J. B. Garcia. No. 1,420,089; June 20.
Snow-removing machine. J. D. Cocke. No. 1,420,522; June 20.
Soap composition and making same. E. G. Acheson. No. 1,419,952; June 20.
Soil-pulverizing implement. J. F. Wagner. No. 1,420,351; June 20.
Sole blanks, Apparatus for channelling. L. Streibel. No. 1,420,161; June 20.
Sound boxes, Diaphragm for. J. E. Robins and W. S. Slack. No. 1,419,943; June 20.
Sound-recording apparatus. N. H. Holland. No. 1,420,317; June 20.
Sound-recording process. A. J. Cawley. No. 1,420,304; June 20.
Sound-reproducing machines, Automatic stop for. W. G. Althaus. No. 1,420,071; June 20.
Spark plug. J. Malligan. No. 1,420,565; June 20.
Spark plug. R. F. Stephenson. No. 1,420,159; June 20.
Speed-changing device. C. K. Matthews. No. 1,420,272; June 20.
Speed indicator and signal. O. S. Haslet. No. 1,420,314; June 20.
Speed mechanism, Variable-. S. W. Griffin. No. 1,420,253; June 20.
Spring-motor mechanism. F. Magidson. No. 1,420,048; June 20.
Spring wheel. L. Gelfond. No. 1,420,251; June 20.
Sprinkling apparatus. W. Heine. No. 1,419,925; June 20.
Stair structure. A. A. Swanson. No. 1,420,294; June 20.
Stapling machine, Multiple. H. B. Walter. No. 1,420,227; June 20.
Starter support, Kick-. C. B. Franklin. No. 1,420,479; June 20.
Steam boiler and making the same. W. E. Cleveland. No. 1,420,182; June 20.
Steam condenser. J. H. Bartels. No. 1,420,402; June 20.
Steel, Making alloy. J. McConnell. No. 1,420,328; June 20.
Steering mechanism. F. Aliquo. No. 1,420,231; June 20.
Steering mechanism. G. T. Nelson. No. 1,419,977; June 20.
Steering wheel. W. C. Rastetter. No. 1,420,446; June 20.
Steering wheel. E. R. Thomas. No. 1,420,462; June 20.
Steps, Extension. J. Szczurek. No. 1,419,992; June 20.
Stereotype plates, Mold for casting. C. Winkler. No. 1,420,464; June 20.
Storage battery. P. M. Marko. No. 1,420,435; June 20.
Stove, Camp. V. Lasbury. No. 1,420,043; June 20.
Strap and fastener. G. L. Rock. No. 1,420,148; June 20.

Straw, Apparatus for fiberizing and felting. J. K. Toles. No. 1,420,162; June 20.
Straw holder. J. G. Thompson. No. 1,420,297; June 20.
Sulphur, Solidifying. R. F. Bacon and H. S. Davis. No. 1,419,911; June 20.
Switch: *See*—
Break switch. Electric switch.
Table: *See*—
Box table. Camp table.
Table. O. A. Armstrong. No. 1,420,511; June 20.
Table. E. Niesen. No. 1,419,978; June 20.
Table and case, Collapsible. C. E. Morfoot. No. 1,420,126; June 20.
Table and chair, Combination. T. Doroszuk. No. 1,420,368; June 20.
Talking-machine records, Holder for. H. Weide. No. 1,420,004; June 20.
Tamping tool. G. Kohler. No. 1,420,196; June 20.
Tank closure. G. L. Smith and D. F. Asbury. No. 1,420,063; June 20.
Teledynamic control, System of. J. H. Hammond, Jr. No. 1,420,256; June 20.
Telephone-exchange system, Automatic. C. L. Goodrum. (Reissue.) No. 15,389; June 20.
Telephone or desk memorandum. F. E. Hare. No. 1,419,966; June 20.
Tempering and annealing, Apparatus for use in. D. S. Lavaud, B. F. Clark, and C. W. Baines. No. 1,420,379; June 20.
Textile reed. H. E. Hurtz. No. 1,420,262; June 20.
Thermometer. N. Decarie. No. 1,420,022; June 20.
Thermometer, Metallic radiator. R. G. Hebrock. No. 1,420,038; June 20.
Thrashing-machine feeder. M. L. Heineke. No. 1,419,926; June 20.
Tile construction. E. Ceriat. No. 1,420,020; June 20.
Timer. J. A. Anderson. No. 1,420,012; June 20.
Tire carrier. J. B. Collins. No. 1,419,958; June 20.
Tire carrier. H. R. Gerrie. No. 1,419,965; June 20.
Tire-carrier-locking device. H. G. Voight. No. 1,420,226; June 20.
Tire, Pneumatic. V. Dirienzo. No. 1,420,081; June 20.
Tire pump, Automobile. C. G. Sunden. No. 1,420,587; June 20.
Tire valve, Pneumatic-. E. D. Dougherty. No. 1,420,245; June 20.
Tire valve, Pneumatic-. H. F. Richter. No. 1,420,499; June 20.
Tire protector, Pneumatic-. C. Taylor. No. 1,420,392; June 20.
Tires and the like, Expansible core for curing automobile. W. F. Miller. No. 1,420,490; June 20.
Tires, Constructing pneumatic. F. S. Dickinson. No. 1,420,611; June 20.
Tobacco pipe. J. C. Luedke. No. 1,420,117; June 20.
Toe protector. R. H. Anderson. No. 1,420,302; June 20.
Toenail-growing guide. A. Figielek. No. 1,420,085; June 20.
Toilet-article case. A. Coryell. No. 1,420,523; June 20.
Token carrier. J. C. Hopkins. No. 1,420,377; June 20.
Tongs, Blacksmith's. J. M. Black, Sr. No. 1,420,576; June 20.
Tool-holder attachment. J. Henning. No. 1,419,967; June 20.
Tool, Machine. J. La Rock. No. 1,420,323; June 20.
Tool, Pneumatic. W. H. Keller. No. 1,420,318; June 20.
Toothbrush, Combination. H. F. Schoneman. No. 1,420,581; June 20.
Toothbrush, Rotary. E. F. Schworm. No. 1,420,388; June 20.
Torpedoes, Mechanism carried by aircraft for adjusting. A. C. Thornton. No. 1,420,592; June 20.
Toy. O. Smith. No. 1,420,584; June 20.
Toy. A. R. Visitacion. No. 1,420,505; June 20.
Toy. M. R. Williams. No. 1,420,597; June 20.
Toy aeroplane. J. O. Howard. Nos. 1,420,193–4; June 20.
Toy, Flying. A. L. Salvo. No. 1,420,449; June 20.
Toy, Mechanical. L. V. Aronson. No. 1,420,072; June 20.
Toy, Musical. M. Kaufman. No. 1,420,109; June 20.
Toy Punch and Judy show. T. Mathews. No. 1,419,976; June 20.
Toy vehicle. J. W. Dougherty. No. 1,420,308; June 20.
Track, Endless. V. Dutkiewicz and C. Isambert. No. 1,420,531; June 20.
Track, Suspended two-rail. N. Krump. No. 1,420,112; June 20.
Traction and antiskid device. J. Rowe. No. 1,420,149; June 20.
Tractor attachment. E. G. Wroughton. No. 1,420,174; June 20.
Tractor-drawn machines, Steering device for. B. Douglass. No. 1,420,188; June 20.
Tractor guide. F. J. Anderson. No. 1,419,909; June 20.
Tractors, Push-bar attachment for. H. G. Irwin. No. 1,420,106; June 20.
Traffic signal. E. C. Marshall. No. 1,420,124; June 20.
Trains, Compressed-air continuous brake system for. D. Božić. No. 1,420,237; June 20.
Tramways and light railways, Welded joint for. G. Wallace. No. 1,420,614; June 20.
Transformer. S. Horelick. No. 1,420,103; June 20.
Transforming apparatus, Rotary. E. F. W. Alexanderson. No. 1,420,398; June 20.
Trap: *See*—
Fluid trap.
Trap. H. Pierini. No. 1,420,384; June 20.
Trap. L. J. Wilson. No. 1,420,229; June 20.
Trimming machine. C. M. Brehm. No. 1,420,469; June 20.
Trolley. G. Bryar. No. 1,419,955; June 20.
Trolley poles for electrically-propelled vehicles, Socket or base for. E. M. Munro. No. 1,420,131; June 20.
Trolley reel. A. A. Thiele. No. 1,420,350; June 20.
Trolley wires and the like, Suspension for. G. W. Bower. No. 1,420,407; June 20.
Truck and wagon dump, Combination. T. E. Britton. No. 1,420,078; June 20.
Truck, Dumping. A. W. Herbst and C. C. J. Culmer. No. 1,420,315; June 20.
Tube heading or flanging machine. E. B. Miner. No. 1,420,383; June 20.
Tube rolling mill, Continuous. R. E. Brock. No. 1,420,239; June 20.
Tubes, Machine and method for forming and bending. F. Kritz. No. 1,420,042; June 20.
Tuning fork and supporting resonator, Master. J. C. Deagan. No. 1,419,919; June 20.
Turbines, Manufacture of blading for. C. A. Parsons, A. Q. Carnegie, and M. Bone. No. 1,420,278; June 20.
Turbines, Manufacture of blading for. C. A. Parsons, A. Q. Carnegie, and M. Bone. No. 1,420,338; June 20.
Turbogenerator. W. F. Bouché and E. J. Blake. No. 1,420,076; June 20.
Turnbuckle. W. E. Sullivan. No. 1,420,460; June 20.
Type case. R. I. Scheuer. No. 1,420,154; June 20.
Type-casting machines, Knife-wiping attachment for. E. Villarreal. No. 1,420,595; June 20.
Typewriter attachment. H. L. Hedrick and H. C. Chantler. No. 1,420,259; June 20.
Typewriting machine. W. P. Keene. No. 1,419,970; June 20.
Typewriting machine. J. A. B. Smith. No. 1,419,991; June 20.
Typewriting machines, Sound-muffling pad for. B. J. Dowd. No. 1,420,082; June 20.
Undercutter. W. L. Bartell. No. 1,420,234; June 20.
Undergarment, Lady's. M. N. Mills. No. 1,419,940; June 20.
Vacuum cleaner. W. J. Wise and T. O. Adams. No. 1,420,172; June 20.
Vacuum-regulating apparatus. S. H. Hall. No. 1,420,035; June 20.
Valve, Accelerating dry-pipe. G. E. Hibbard. No. 1,420,192; June 20.
Valve, Chimney. K. Weinel. No. 1,420,397; June 20.
Valve, Drain. F. Knight. No. 1,420,559; June 20.
Valve, Dry-pipe. H. H. McCarn. No. 1,420,269; June 20.
Valve, Flush-tank. F. L. Shoppe, E. G. Hedges, and W. W. Heroy. No. 1,420,452; June 20.
Valve for air compressors, Discharge. E. L. Hewlett. No. 1,420,429; June 20.
Valve, Injector. L. A. Faust. No. 1,420,419; June 20.
Valve-spring support for valve grinding. G. W. Fleming. (Reissue.) No. 15,388; June 20.
Vapors, Volatilizing, distilling, or separating absorbed. C. L. Voress and V. C. Canter. No. 1,420,613; June 20.
Vehicle bodies, Door and wall panel for. C. A. Miner. No. 1,420,051; June 20.
Vehicle fender. E. S. Czarczynski. No. 1,419,959; June 20.
Vehicle signal. W. E. Root. No. 1,420,343; June 20.
Vehicle top. W. MacKewen. (Reissue.) No. 15,392; June 20.
Vehicle-towing crane. A. J. Duken. No. 1,420,369; June 20.
Vehicle wheel. B. D. Lockwood. No. 1,420,199; June 20.
Vehicle wheel. S. H. Manchester. No. 1,419,975; June 20.
Vehicle wheel. C. F. Ruhsam. No. 1,420,448; June 20.
Vehicle wheel, Resilient. G. Vordermark. No. 1,420,393; June 20.
Vehicles, Auxiliary control for motor. G. L. Schofield. No. 1,420,290; June 20.
Vehicles, Direction signal for motor. V. R. Will. No. 1,420,299; June 20.
Vehicles, Means for turning motor. L. F. Delaney. No. 1,420,307; June 20.
Vehicles, Window of road. F. J. Rees. No. 1,420,617; June 20.
Velocipede propelling mechanism. M. Wagner. No. 1,420,394; June 20.
Ventilator: *See*—
Engine ventilator.
Ventilator. W. S. and G. O. Webster. No. 1,420,002; June 20.
Ventilator cap. J. K. Pennington. No. 1,420,142; June 20.
Wall construction. W. R. Forbush. No. 1,420,478; June 20.
Walls, Corner strip for plastered. E. H. Jones. No. 1,420,040; June 20.
Wardrobe rack. J. Everitt. No. 1,420,534; June 20.
Watch. H. N. Hill. No. 1,420,261; June 20.
Water-craft-driving mechanism. E. M. Schneidenbach. No. 1,420,579; June 20.
Water heater, Automatic. J. Beard. No. 1,420,513; June 20.
Wave motor. L. Mitelman No. 1,420,332; June 20.

Wave selection, System and apparatus for automatic. J. H. Hammond, Jr. No. 1,420,257; June 20.
Welded structure and forming same. R. V. Bingay. No. 1,420,016; June 20.
Wells, Means for boring. M. T. Chapman. No. 1,420,365; June 20.
Wheel: *See*—
Automobile wheel.
Disk wheel.
Metal wheel.
Spring wheel.
Steering wheel.
Vehicle wheel.
Wheel. H. W. Sanford. No. 1,420,221; June 20.
Window construction. J. F. and F. J. Steckenreiter. No. 1,420,457; June 20.
Window-control mechanism. J. D. Lawrence and S. W. Nicholson. No. 1,419,937; June 20.
Window lock. D. Zumwalt. No. 1,420,358; June 20.
Window lock, balance, and lift, Combination automatic. P. L. Throne. No. 1,420,503; June 20.
Window-sash balance. T. L. Patrick. No. 1,420,280; June 20.
Windshield cleaner. F. G. and W. M. Folberth. No. 1,420,538; June 20.
Wiping mechanism. A. Perri. Nos. 1,420,573–4; June 20.
Woodworking machine, Convertible. F. E. Thomas. No. 1,420,591; June 20.
Wrench: *See*—
Pipe wrench.
Wrench. W. S. Bellows. No. 1,420,467; June 20.
Wrench. R. T. Brown. No. 1,420,409; June 20.
Wrench. H. E. Lightner. No. 1,420,116; June 20.
Wrench handle. F. E. Parsons and W. M. Robinson. No. 1,420,279; June 20.
Wringer support. H. A. Sperlich. No. 1,420,157; June 20.
Writing instrument, Self-luminous. A. V. T. Day. No. 1,420,184; June 20.
Yeast, Drying. E. Klein. No. 1,420,558; June 20.
Yeast, Preparing dried. E. Klein. No. 1,420,557; June 20.

ALPHABETICAL LIST OF DESIGNS.

Badge, button, or similar article. W. J. Stewart. No. 61,124; June 20.
Belt. T. Fisher. No. 61,091; June 20.
Button. B. H. Grossman. No. 61,093; June 20.
Button. R. Kuno. No. 61,095; June 20.
Ceiling plate. I. Levy. No. 61,097; June 20.
Charm. A. B. Lemon. No. 61,096; June 20.
Doll. H. C. Beagary. No. 61,080; June 20.
Doll M. Caretto. No. 61,083; June 20.
Electric heater. G. R. Debnam, Jr. No. 61,088; June 20.
Electric-lighting bracket. M. B. Roller. No. 61,117; June 20.
Flag. H. C. A. Bowman. No. 61,082; June 20.
Flag, pennant, or similar article, Service. H. W. Waite. No. 61,128; June 20.
Frame. A. Bootrym. No. 61,081; June 20.
Goblet, bowl, or similar article. Ornamentation for a. W. A. Reaper. No. 61,103; June 20.
Grating. W. H. Lown. No. 61,098; June 20.
Lamp. G. J. Romulus. No. 61,118; June 20.
Lamp base, Portable. S. R. Schwartz and A. Bostroem. No. 61,122; June 20.
Lamp shade. F. Roettges. No. 61,104; June 20.
Lamp stand and phonograph, Combined. M. Rusnak. No. 61,120; June 20.
Lighting bracket back plate. M. B. Roller. Nos. 61,105–6; June 20.
Lighting fixture. H. C. Adam. Nos. 61,076–8; June 20.
Lighting fixture. M. B. Roller. Nos. 61,109–14; June 20.
Lighting-fixture arm. M. B. Roller. Nos. 61,115–16; June 20.
Lighting-fixture plate. M B. Roller. Nos. 61,107–8; June 20.
Match stand and ash tray, Combined. A. W. Rosen. No. 61,119; June 20.
Pennant. R. D. Turrentine. No. 61,125; June 20.
Picture and mirror frame. J. Urbanek. Nos. 61,126–7; June 20.
Plate or similar article. C. A. May. No. 61,099; June 20.
Refrigerating-machine casing or frame. G. R. Jarman. No. 61,094; June 20.
Ring, badge, emblem, pin, or similar article, Finger. G. E. Steinbrenner. No. 61,123; June 20.
Ring, fob, scarf pin, or similar article. J. and T. Yappelli. No. 61,129; June 20.
Shoe, Lady's. S. Dannolfo. No. 61,087; June 20.
Sign, Highway. C. F. Cooke. No. 61,086; June 20.
Spoon, fork, or similar article, Handle for. W. Codman. Nos. 61,084–5; June 20.
Stand. J. Santa. No. 61,121; June 20.
Textile fabric. L. E. Ellis. Nos. 61,089–90; June 20.
Textile fabric. H. J. Gorgas. No. 61,092; June 20.
Tire tread. C. F. Ofensend. No. 61,101; June 20.
Tire tread. H. W. Osborn. No. 61,102; June 20.
Tobacco pipe. F. A. McKagney. No. 61,100; June 20.
Toy. F. D. Ammen. No. 61,079; June 20.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Alcohol, Rubbing. Continental Drug Corporation. No. 156,218; June 20.
Ammonia and javelle water. Wilbert Products Co. No. 156,470; June 20.
Anesthetic, Local. Society of Chemical Industry in Basle. No. 156,426; June 20.
Antiphlogistic dressing, Liquid. W. G. Evans. No. 156,242; June 20.
Antirheumatic, analgesic, and antipyretic. Bayer Company. No. 156,174; June 20.
Antiseptic wash. J. J. Jenkins. No. 156,313; June 20.
Antiseptics, disinfectants, fungicides, and insecticides. Grasselli Chemical Company. No. 156,276; June 20.
Antiskid chains for vehicle wheels. American Chain Company. No. 156,160; June 20.
Aperient medical preparation. A. D. Holland & Co. No. 156,301; June 20.
Baby bath robes, dresses, bunting, or wrap. Reliable Kiddy Wear Company. No. 156,400; June 20.
Bait, Artificial. O. C. Tuttle. No. 156,450; June 20.
Baking powder. Calumet Baking Powder Company. No. 21,792; renewed Sept. 27, 1922.
Baking powder. McCarthy Brothers. No. 156,334; June 20.
Balls, Golf. Holmac, Inc. No. 156,302; June 20.
Balls, Golf. St. Mungo Manufacturing Company of America. No. 156,434; June 20.
Bathing caps, belts, rubber household gloves. Miller Rubber Company. No. 156,351; June 20.
Beverage sold as a soft drink. Coca Cola Bottling Company. No. 156,208; June 20.
Beverage sold as a soft drink and sirups used in the preparation of same. C. L. Beardsley. Nos. 156,176–8; June 20.
Beverages, Nonalcoholic, maltless, cereal. Adolph Coors B. & M. Company. No. 156,155; June 20.
Beverages, Nonalcoholic maltless flavoring for making. Davies, Rose & Co. Nos. 156,224–5; June 20.
Beverages sold as soft drinks and sirups for making same. Wood & Selick, Inc. No. 156,475; June 20.
Binoculars, field glasses, telescopes, etc. G. Mayerle. No. 156,346; June 20.
Blue, Ultramarine. Standard Ultramarine Co. No. 156,431; June 20.
Bluing. Condensed Bluing Company. No. 156,216; June 20.
Boiler compound. T. Hopkins. No. 156,441; June 20.
Boilers and radiators, Composition for removing scale from. C. J. Allen. No. 156,156; June 20.
Boots and shoes. Rubberhide Company. No. 156,408; June 20.
Boots and shoes, Men's and women's. Ault-Williamson Shoe Co. No. 156,171; June 20.
Brandy. E. Rémy Martin & Co. No. 20,561; renewed Jan. 5, 1922.
Bread. Nafziger Baking Company. No. 156,487; June 20.
Brushes. Sanitax Brush Company. No. 156,412; June 20.
Brushes, brooms, and powder puffs, Certain. Minneapolis Drug Company. No. 156,486; June 20.
Brushes, Wire. Worcester Brush and Scraper Co. No. 156,476; June 20.
Candies. Moxie Company. No. 156,355; June 20.
Candy. Euclid Candy Company. No. 156,241; June 20.
Candy. New England Confectionery Company. Nos. 156,368–70; June 20.
Candy, Chocolate. Chocolate Products Company. No. 156,207; June 20.
Canned fish, fruits, and vegetables. C. L. Benson. No. 21,856; renewed Oct. 11, 1922.
Canned fruits and vegetables. G. D. Milligan Grocer Co. No. 156,352; June 20.
Canned fruits, vegetables, and fish, and teas. E. C. Harley Company. No. 156,287; June 20.
Canned salmon. Hetta Packing Co. No. 156,294; June 20.
Canned vegetables and fish. Seeman Brothers. No. 20,942; renewed March 17, 1921.
Caps, Men's. David D. Doniger & Co. Inc. No. 156,231; June 20.
Card-filing system. W. A. Ringler. No. 156,404; June 20.
Carpets and rugs, Grass. Crex Carpet Company. No. 156,222; June 20.
Carpets, Chenille. Hardwick & Magee Company. No. 156,286; June 20.
Chambray and cheviots in the piece. Riverside & Dan River Cotton Mills, Inc. No. 156,405; June 20.
Chemical for preventing decomposition. Grasselli Chemical Company. No. 156,281; June 20.
Chemical, medicinal, and pharmaceutical preparations, Certain. Parke, Davis & Company. No. 156,384; June 20.
Chemical preparations for certain purposes. Grasselli Chemical Company. No. 156,272; June 20.
Chemical substance giving self-rising qualities to flour. Phosphate Products Corporation. No. 156,393; June 20.
Chemicals, Certain. Innis, Speiden & Co. No. 156,307; June 20.
Cigar and cigarette holders. T. H. McClure. No. 156,335; June 20.
Cigars. Henry Lowe Cigar Co. No. 156,332; June 20.
Cigars. M. Rosenthal. No. 156,406; June 20.
Clothing, Certain articles of. Franklin Simon & Co. No. 156,249; June 20.
Clothing, Certain articles of. Hicks-Hayward Company. No. 156,295; June 20.
Clothing, Certain articles of. United Turkey Red Company. No. 156,454; June 20.
Clothing, Certain articles of. Worth, Inc. No. 156,477; June 20.
Coal. R. H. Bell. No. 156,179; June 20.
Coats and suits, Ladies' and misses'. Harry Greenberg Co. No. 156,282; June 20.
Cocks, Metal. Verband Schweiz Armaturenfabriken, Bern. No. 156,455; June 20.
Coffee. National Paper Can Company. No. 156,364; June 20.
Coffee and tea. McInnes-Walker Company. No. 156,338; June 20.
Coffee substitute. Delisco Corporation, Limited. No. 156,230; June 20.
Cold-cream preparation. N. V. Smith. No. 156,424; June 20.
Collars, cuffs, guimpes, vestees, etc. G. Sidenberg & Co. No. 156,418; June 20.
Colors, Food. Marston-Greening Co. No. 156,345; June 20.
Combinations, bodices, nightdresses, etc. Salomon Stern, Ld. No. 156,409; June 20.
Corsets and brassières. Benjamin and Johnes. No. 156,180; June 20.
Cotton batting. Stearns & Foster Company. No. 156,432; June 20.
Cotton duck or canvas. Wellington, Sears & Company. No. 156,464; June 20.
Cotton net. Muser Brothers. No. 156,359; June 20.
Cotton piece goods. American Bleached Goods Company. No. 156,158; June 20.
Cotton piece goods. Fred Butterfield & Co. No. 156,196; June 20.
Cotton piece goods. Cohn-Hall-Marx Co. No. 156,211; June 20.
Cotton piece goods. N. Fluegelman & Co. No. 156,253; June 20.
Cotton piece goods. Hill Manufacturing Co. No. 156,296; June 20.
Cotton piece goods. Pacific Mills. Nos. 156,382–3; June 20.
Cotton piece goods. J. C. Penney Company. No. 156,388; June 20.
Cotton piece goods. Smith, Hogg & Co. No. 156,423; June 20.
Cotton piece goods. Trion Company. Nos. 156,445–6; June 20.
Cotton piece goods. Trippe, Barker & Co. No. 156,447; June 20.
Cotton piece goods. Ware Shoals Mfg. Co. No. 156,460; June 20.
Cotton piece goods. Whittenton Manufacturing Company. No. 156,468; June 20.
Cotton piece goods, Woven. Neuss, Hesslein & Co. No. 156,367; June 20.
Cotton, silk, and linen goods, and mixtures, all in the piece. Jacob Miller Sons & Co. No. 156,350; June 20.
Cough medicine. M. A. Jasper. No. 156,312; June 20.
Crayons. Art Crayon Co. No. 156,165; June 20.
Cream, Skin. Geer Drug Company. No. 156,257; June 20.
Cream, Toilet. Sem-Pray Jo-Ve-Nay Company. Nos. 153,414–5; June 20.
Creamers, Centrifugal. Aktiebolaget Separator. Nos. 20,967–8; renewed Apr. 12, 1922.
Cutlery and tools, Certain articles of. Blish, Mize & Silliman Hardware Co. No. 156,186; June 20.
Dental medicines and tooth paste, Germicidal. L. E. Sweitzer. No. 156,439; June 20.
Disinfectant. Colonial Chemical Corporation. No. 156,213; June 20.
Drawing books, Children's. Saml. Gabriel Sons & Company. No. 156,255; June 20.
Dresses, Children's. Cooper, Coate & Casey Dry Goods Co. No. 156,220; June 20.
Dye and dyestuffs. Grasselli Chemical Company. Nos. 156,270–1; June 20.
Dye, Hair. Perfecto Chemical Co. No. 156,390; June 20.
Dye, Hat. G. H. Capen. No. 156,199; June 20.
Dyes and dyestuffs. Grasselli Chemical Co. Nos. 156,273–5; June 20.
Dyes and dyestuffs. Grasselli Chemical Company. Nos. 156,277–9; June 20.
Dyes and dyestuffs, photographic chemicals, etc. Grasselli Chemical Company. No. 156,269; June 20.

Dyestuffs, Coal-tar. National Aniline & Chemical Company. No. 156,488; June 20.
Elixir and suppository. Colton & Collins, Inc. No. 156,214; June 20.
Enamel, Liquid nail. G. N. Eriksen. No. 156,239; June 20.
Fabrics in the piece, Pile. Sidney Blumenthal & Co. Nos. 156,187–9; June 20.
Fabrics in the piece, Pile. Sidney Blumenthal & Co. No. 156,419; June 20.
Fans, Rotary. American Aero Company. No. 156,157; June 20.
Fattening compound for animals, Medicinal. Hegewisch Chemical Works. No. 156,290; June 20.
Fish, oysters, and other shell fish packed in tin and glass. Herman Ruge & Sons. No. 21,863; renewed Oct. 11, 1922.
Fishing line. Ashaway Line & Twine Manufacturing Company. Nos. 156,166–8; June 20.
Fishing lines. Edw. K. Tryon Company. No. 156,496; June 20.
Fishing-rod mountings. W. H. Meyer. No. 156,348; June 20.
Filters. La Societe Anonyme Du Filtre Chamberland Systeme Pasteur. No. 156,324; June 20.
Flannels, tickings, covert cloths, etc., Canton. Erwin Cotton Mills Co. No. 156,240; June 20.
Floor and furniture-top coverings. Wagenmaker Company. No. 156,459; June 20.
Foods, Breakfast cereal. J. Kaufman. No. 156,484; June 20.
Foot wash. S. J. Mills. No. 156,353; June 20.
Footease preparation. Sharp & Dohme. No. 156,416; June 20.
Friezes and woolen cloths, Irish. E. Connor & Company. No. 156,217; June 20.
Fruit, Fresh deciduous. Lamb Fruit Company. No. 156,323; June 20.
Game, Indoor baseball. Piroxloid Products Corporation. No. 156,394; June 20.
Games, Parlor baseball. I. Fiedler. No. 156,245; June 20.
Glassware, Certain. Economy Tumbler Co. No. 156,483; June 20.
Gloves and hosiery, Leather and fabric. Moss Glove & Hosiery Co. No. 156,354; June 20.
Gloves, Leather. Reynier & Cie. Nos. 156,401–3; June 20.
Graphic charts, Ruled sheets used for making. Codex Book Co. No. 156,209; June 20.
Grease cups. Flannery Bolt Company. No. 156,246; June 20.
Hair dressing. R. C. Butler. No. 156,195; June 20.
Hair for mattresses, etc., Curled. Peter Woll and Sons Mfg. Co. No. 156,474; June 20.
Hair nets. Brett Manufacturing Company. No. 156,191; June 20.
Hair nets. French Importing Co. No. 156,250; June 20.
Hair nets. S. Glemby's Sons Co. No. 156,265; June 20.
Hair nets. M. Herzog. No. 156,293; June 20.
Hair nets. F. M. Keeler Co. No. 156,315; June 20.
Hair nets. National Commodities Company. Nos. 156,362–3; June 20.
Hair nets. Neemo Hair Net Co. No. 156,366; June 20.
Hair nets. New York Merchandise Co. Nos. 156,373–5; June 20.
Hair nets. Trimount Trading Company. No. 156,444; June 20.
Hair tonic. C. E. Hoffman Company. Nos. 156,298–9; June 20.
Hair tonic. A. L. Parker. No. 156,385; June 20.
Hair tonic, shampoo, and external liniment. G. Spear. No. 156,429; June 20.
Hair-waving apparatus, Hot-air. Gem Air Permanent Wave Co. No. 156,258; June 20.
Haircloth. H. M. Schadewald. No. 156,413; June 20.
Hammers. John N. Lindsley Inc. No. 156,329; June 20.
Handkerchiefs and bandannas. Empire Silk Company. Nos. 156,237–8; June 20.
Hats and bonnets for ladies, misses, and young boys, and trimmings therefor. C. E. Taylor. No. 22,090; renewed Nov. 29, 1922.
Hats and gowns, Ladies'. J. J. Jonas. No. 156,314; June 20.
Hats, Ladies'. M. Saltzman. No. 156,410; June 20.
Hats, Men's and women's. Davis-Pope Company. No. 156,227; June 20.
Hats, Women's. Irene Malloy Hat Company. No. 156,342; June 20.
Healing powder. A Augis. No. 156,170; June 20.
Honey, olive oil, peanut butter, fruit jam, etc. Hoffman and Hauck, Inc. No. 156,300; June 20.
Hops. Klatcher & Lorenz, Inc. No. 156,318; June 20.
Horse blankets or covers. Burlington Blanket Company. No. 21,249; renewed June 7, 1922.
Hosiery. Gold Seal Knitting Mills. No. 156,266; June 20.
Hosiery. Louis Stix Co. No. 156,330; June 20.
Ink, Nonerasable. J. Gams. No. 156,256; June 20.
Insecticides. Bear Chemical Company. No. 156,175; June 20.
Insecticides, bactericides, disinfectants, and fungicides for plants. Bobwhite Chemical Corporation. No. 156,190; June 20.
Iron, Sulphate of. American Steel & Wire Company of New Jersey. No. 156,162; June 20.
Knitted underwear. Oak Knitting Company. No. 156,379; June 20.
Knitted woolen and worsted cloth or fabric in the piece. Continental Mills, Inc. No. 156,219; June 20.
Laboratory and dental apparatus, Certain. L. D. Caulk Company. No. 156,202; June 20.
Lace and embroidery articles. Perlmann, Sehal & Stern. Nos. 156,391–2; June 20.
Lace in the piece. I. Lindenbaum & Co. Nos. 156,327–8; June 20.
Lard. Jersey City Packing Company. No. 20,844; renewed Mar. 15, 1922.
Laundry blue mounted on a stirrer. O-Zo-Zo Company. No. 156,381; June 20.
Leather sole and side. Strauss Leather Company. Nos. 156,436–7; June 20.
Linens and canvas in piece goods, tablecloths, napkins, handkerchiefs. Irish Linens, Inc. No. 156,308; June 20.
Liniments. J. J. Klavon. No. 156,319; June 20.
Liquors except brandy, All spirituous and fermented. J. W. Nicholson & Co. No. 21,571; renewed Aug. 9, 1922.
Lotion, Skin. Lavelvo Company. No. 156,325; June 20.
Machinery and tools, Certain. Axelson Machine Company. No. 156,169; June 20.
Malt extracts, Liquid and concentrated. Malt-Diastase Company. No. 156,485; June 20.
Medical preparation for constipation and disease caused by weakness of the bowels. J. Gesteira. No. 156,262; June 20.
Medicine (a yeast laxative). A. M. Davis. No. 156,226; June 20.
Medicinal and pharmaceutical preparations, Certain. Owl Drug Company. No. 156,380; June 20.
Medicinal compound for rheumatism, &c. F. J. Emerson. No. 156,236; June 20.
Medicinal preparation. Kruger Drug Co. No. 156,322; June 20.
Medicinal preparation for cholera, etc., in fowls. M. H. Andersen. No. 156,163; June 20.
Medicinal preparations for diseases of the bladder and the gall. E. Bilhuber, Incorporated. No. 156,182; June 20.
Medicinal preparation for glandular insufficiency. J. A. Piuma. No. 156,395; June 20.
Medicinal preparation for treating piles. A. E. Burnett. No. 156,193; June 20.
Medicinal preparations, Certain. J. M. Dressler. No. 156,233; June 20.
Medicinal preparations, Certain. Prontic Druggists, Inc. No. 156,396; June 20.
Medicine and nerve tonic, Kidney. J. H. Forehand. No. 156,247; June 20.
Medicine for relief of pain after an extraction. S. Abowitch. No. 156,153; June 20.
Medicine for treatment of cancer. W. H. Havens. No. 156,289; June 20.
Metal wire. Macwhyte Company. No. 156,339; June 20.
Milk products. De Danske Mejeriforeningers Maelke-Export. No. 156,228; June 20.
Molasses. Dunbar Molasses & Syrup Co. No. 156,234; June 20.
Moth preventive and immunizer. Nyanza Color & Chemical Co. No. 156,378; June 20.
Mouth wash. Calenduline Company of California. No. 156,197; June 20.
Needles, Sewing. Georg Printz & Co. No. 19,196; renewed Mar. 17, 1921.
Nuts and popcorn. Marston-Greening Company. No. 156,344; June 20.
Oil of myrbane, benzol, ether, etc. Standard Oil Company. No. 156,430; June 20.
Oranges, Fresh. Covina Orange Growers Association. No. 156,221; June 20.
Oxytocic. Society of Chemical Industry in Basle. No. 156,427; June 20.
Packing, Composition. Williamsport Development Company. No. 156,471; June 20.
Pans, coffee boilers, dinner carriers, etc., Bread. Gustav Glaser Co. No. 156,284; June 20.
Paper and envelopes, Writing. George B. Hurd & Co. No. 21,138; renewed May 17, 1922.
Paper, cardboard, etc. Strathmore Paper Company. No. 156,493; June 20.
Paper, Toilet. White-Washburne Company. Nos. 156,465–7; June 20.
Paper, Wrapping. Graham Paper Company. No. 156,268; June 20.
Pencils. Inkograph Company. No. 156,306; June 20.
Perfume. A. W. Herbst. Nos. 156,291–2; June 20.
Perfume, toilet water, etc. Cheramy, Incorporated. No 156,206; June 20.
Pharmaceutical preparations, Certain. J. M. Frost. No. 156,252; June 20.
Pharmaceutical preparations, Certain. J. X. Chemical Company. No. 156,203; June 20.
Photographic developers. Grasselli Chemical Company. No. 156,280; June 20.
Pills. M. Leprince. No. 21,926; renewed Nov. 1, 1922.
Pipe, railway spikes and bolts, etc., Welded and riveted. Koppel Industrial Car & Equipment Company. No. 156,320; June 20.
Pipes and cases for pipes, Smoking. Reiss-Premier Pipe Company. No. 156,491; June 20.

Pipes and cigar holders. J. Bachmann. No. 156,172; June 20.
Pipes, pipe fittings, etc., Metal. Gomez & Sloan, Inc. No. 156,267; June 20.
Plaster composition. Miller Filler Co. No. 156,349; June 20.
Plasters, Calcined gypsum. United States Gypsum Company. No. 156,453; June 20.
Plastic material. Compagnie Generale D'Electricite. No. 156,215; June 20.
Pliers. Smith and Hemenway Company. No. 156,422; June 20.
Poison for animals. Northwestern Hide & Fur Co. No. 156,490; June 20.
Powder, Make-up. K. M. Lublin. No. 156,333; June 20.
Powder puffs. M. Crupain. No. 156,223; June 20.
Powder, Talcum. Bauer & Black. No. 156,173; June 20.
Powders and toilet creams, Tooth. Simmons & Hammond Manufacturing Co. No. 156,420; June 20.
Preparation for all skin diseases, Liquid. E. Snipes. No. 156,425; June 20.
Preparation for coughs, colds, etc. J. A. Coe. No. 156,210; June 20.
Preparation for the extermination of vermin. Zo No Company. No. 156,481; June 20.
Preparation for preventing corrosion of the terminals of storage batteries. G. F. Hilton. No. 156,297; June 20.
Preparation for the treatment of pyorrhea. Fugo Chemical Company. No. 156,254; June 20.
Preparation for the treatment of rheumatism. H. Adams. No. 156,154; June 20.
Preparation for the treatment of rheumatism, gout, sciatica, etc. W. H. Hughes. No. 156,305; June 20.
Preparation for the treatment of tuberculosis. H. G. Bishop. No. 156,185; June 20.
Preparation for ulcerated gums and infections of the mouth. J. D. Watterson. No. 156,463; June 20.
Preparation used externally for certain purposes. J. Gesteira. No. 156,260; June 20.
Preparations for certain purposes. A. T. Hargest. No. 156,285; June 20.
Pressure regulators, strainers, expansion joints, and feed-water-purifying apparatus. Griscom-Russell Company. No. 156,283; June 20.
Radiator-sealing material. Rade Rite Mfg. Co. No. 156,398; June 20.
Rails, bars, plates, etc., Rolled-metal. Carnegie Steel Company. No. 156,200; June 20.
Railway rails, ties, fish plates, switch points, etc. Koppel Industrial Car & Equipment Company. No. 156,321; June 20.
Raincoats. F. W. Tully. No. 156,448; June 20.
Razors, Safety. Gillete Safety Razor Company. No. 156,264; June 20.
Refrigerating apparatus, Artificial-ice machinery. E. A. Burrows. No. 156,194; June 20.
Remedy, Cough. L. Frolong. No. 156,251; June 20.
Remedy, Female. J. F. Hott. No. 156,303; June 20.
Remedy for malaria. Waterman Manufacturing Company. 156,461; June 20.
Remedy for rheumatism. Purinton Medicine Co. No. 21,549; renewed Aug. 2, 1922.
Remedy for the cure of headache, colds, neuralgia, etc. C. B. Kingsley. No. 21,051; renewed Apr. 26, 1922.
Remedy for weakness, anæmia, etc. Stout Medicine Company. No. 156,435; June 20.
Rootbeer. M. Case. No. 156,201; June 20.
Rubber, Accelerator for vulcanization of. Dovan Chemical Corporation. No. 156,232; June 20.
Rubber and leather goods, Certain. Page Belting Company. No. 21,924; renewed Nov. 1, 1922.
Rubber heels. Brooks & Co. No. 156,192; June 20.
Rubber heels, soles. Victory Rubber Company. No. 156,456; June 20.
Rubber soles and heels for shoes. General Tire and Rubber Company. No. 156,259; June 20.
Salve. John Novak Company. No. 156,376; June 20.
Salve for wounds. F. K. Lewinski. No. 156,326; June 20.
Salve or preparation for throat and lung trouble. J. A. Kelly. No. 156,316; June 20.
Sauce for meats, fish, game, gravies, and soup. Lea & Perrins. No. 21,208; renewed May 31, 1922.
Saws. Shurly & Dietrich. Nos. 21,688–9; renewed Aug. 23,1922.
Screen wire, door steps, transom lifts, knobs, drawer pulls, etc. Wm. Cameron & Co. No. 156,198; June 20.
Seed, Cotton. F. D. Watson. No. 156,462; June 20.
Seeds. J. G. Peppard Co. No. 156,389; June 20.
Shirtings. Turner & Walls. No. 156,449; June 20.
Shoes. The Fair. Nos. 156,243–4; June 20.
Shoes, boots, pumps, oxfords, slippers, rubbers, overshoes. Shoeteria Shoe Company. No. 156,417; June 20.
Shoes, Infants' soft-sole. Stevens Soft Sole Shoe Co. No. 156,433; June 20.
Shoes, Leather. Edmonds Shoe Company. No. 156,235; June 20.
Shoes of leather, canvas, or a combination of both materials. Degen-Lipp, Inc. No. 156,229; June 20.
Shoes, leather, rubber and fabric. James McCreery & Company. No. 156,336; June 20.
Shoes, Women's leather and combination. C. S. Gibbon Co. No. 156,263; June 20.
Silk and cotton mixtures. Piece goods of. Muser Brothers. No. 156,361; June 20.
Silk, drapery, shade cloth, and curtain materials. Loveman Brothers. No. 156,331; June 20.
Silk goods in the piece. William E. Wiener, Inc. No. 156,469; June 20.
Silk in the piece. Muser Brothers. No. 156,358; June 20.
Silk in the piece, Artificial. Muser Brothers. No. 156,360; June 20.
Silk piece goods. H. R. Mallinson & Co. No. 156,341; June 20.
Silk piece goods, Woven and knitted. M. Strauss. No. 156,438; June 20.
Silk-throwing machinery and parts thereof. McGill & Holford Manufacturing Co. No. 156,337; June 20.
Silks in the piece. Jansen & Pretzfeld, Inc. Nos. 156,309–11; June 20.
Silks in the piece. Louis Roessel & Co. No. 156,407; June 20.
Silks in the piece. William Skinner & Sons. No. 156,421; June 20.
Sirup, mustard, peanut butter, etc. South Bend Wholesale Grocery Company. No. 156,492; June 20.
Skin tonics. Merritt's Sons. No. 156,347; June 20.
Soap, Laundry. Crofts & Reed Co. No. 156,482; June 20.
Sodium-bicarbonate tablets. E. L. Patch Co. No. 156,386; June 20.
Stationery. New England Stationery Company. Nos. 156,371–2; June 20.
Stationery articles. P. L. Pease & Company. No. 156,387; June 20.
Sulphate, Barium. Magnuson X-Ray Company. No. 156,340; June 20.
Tablets for cataracts. A. Gardunó y Solórzano. No. 156,428; June 20.
Tablets or powders, Semilaxative. W. A. Tichenor. No. 156,442; June 20.
Temperature-registering devices. F. D. Windell. No. 156,473; June 20.
Textile fabrics used as a foundation for art needlework, Woven. Bernhard Ulmann Co. No. 156,452; June 20.
Tires, Retread strips for automobile. New Standard Rubber Co. No. 156,489; June 20.
Tobacco, cigars, cigarettes, and stogies. V. Vivaudou, Inc. No. 156,458; June 20.
Tobacco extract for flavoring tobacco. Trahern Tobacco Co. No. 156,443; June 20.
Toilet preparations. I. J. Tetlow. No. 156,440; June 20.
Toilet preparations, Certain. R. A. Hudson Company. No. 156,304; June 20.
Toilet preparations, Certain. Henri Muraour & Cie. Nos. 156,356–7; June 20.
Toilet preparations, Certain. V. Vivaudou, Inc. No. 156,457; June 20.
Toilet preparations, Certain. G. A. Wilson, Jr. No. 156,472; June 20.
Toilet preparations—witch hazel. Marshall Field & Company. No. 156,343; June 20.
Tonic and blood medicine, General. F. J. Kennedy. No. 156,317; June 20.
Tonic, General medicinal. Nu-Iron Laboratory Incorporated. No. 156,377; June 20.
Tonic, General uterus. J. Gesteira. No. 156,261; June 20.
Tonic, Liquid. M. J. Olsen. No. 21,553; renewed Aug. 2, 1922.
Tonics and blood-building preparations. Reinschild Chemical Co. No. 156,399; June 20.
Tooth paste. San Aprove Company. No. 156,411; June 20.
Tooth paste, massage cream, etc. American Druggists Syndicate. No. 156,161; June 20.
Toothache liquid and wax, ointment. A. G. Wiswell. No. 156,497; June 20.
Toy circus. S. J. Twyman. No. 156,451; June 20.
Toys. Bing Werke vorm. Gebrüder Bing A. G. Nos. 156,183–4; June 20.
Transits and levels. Young & Sons. Nos. 156,479–80; June 20.
Trucks and trailers, Automotive. Yale & Towne Mfg. Co. No. 156,478; June 20.
Tubes made from nonferrous metals and alloys. American Brass Company. No. 156,159; June 20.
Vaccines and serums. Purity Biological Laboratories. No. 156,397; June 20.
Valves, steam separators, and pipe fittings. National Valve & Manufacturing Company. No. 156,365; June 20.
Velvets. Bennett and Aspden Company. No. 156,181; June 20.
Wagons, Dump. Stroud & Co. Nos. 156,494–5; June 20.
Walnuts in their natural state. C. C. Collins Company. No. 156,212; June 20.
Water, Mineral. A. Velo y Filgueira. No. 156,164; June 20.
Woolen piece goods. Forstmann & Huffmann Company. No. 156,248; June 20.
Woven, knitted, netted, textile, and pile fabrics in the piece. Cheney Brothers. Nos. 156,204–5; June 20.
Writing cases and tablets, writing sets, and telephone registers. Hauser & Weil. No. 156,288; June 20.
Yarn, Cotton. Sanford Spinning Company. No. 21,745; renewed Sept. 13, 1922.

ALPHABETICAL LIST OF LABELS.

"Abba-Zaba." (For Candies.) Colby & McDermott. No. 24,493; June 20.
"Alaska Patties." (For Patties or Small Pies Consisting of Thin Palatable Crusts or Casings Confected in Different Combinations, Filled With Variously-Flavored Ice Creams, Sherbets, Fruit Ices, or Other Frozen Dainties.) C. Siem. No. 24,555; June 20.
"B. & P." (For Egyptian Cigarettes.) S. Benaderet. No. 24,486; June 20.
"Bare." (For Fresh Grapes.) J. V. Bare. No. 24,483; June 20.
"Beacon." (For Apples.) Beacon Trading Company. No. 24,485; June 20.
"Beaver." (For Cigars.) Breslin & Campbell. No. 24,487; June 20.
"Ben Bey." (For Cigars.) N. Elson. No. 24,502; June 21.
"Bleacho." (For Hair Bleach.) J. H. Karp. No. 24,521; June 20.
"Castle." (For Underwear.) Richardson Dry Goods Co. No. 24,548; June 20.
"Coulette." (For a Protective Undergarment for Women.) Solvos Company. No. 24,556; June 20.
"Cotton-Top." (For a Nonintoxicating Beverage.) J. F. Tieberman. No. 24,560; June 20.
"Cremints." (For Packages of Candy.) Cremint Co. No. 24,494; June 20.
"Cub Brand." (For Fresh Grapes.) J. V. Bare. No. 24,484; June 20.
"Della Hair Nets." (For Hair Nets.) New York Merchandise Company. No. 24,534; June 20.
"Dexter's Whole Wheat Bread." (For Bread.) Dexter Baking Company. No. 24,497; June 20.
"Diamond D." (For Flour.) J. W. Denio Milling Company. No. 24,495; June 20.
"Dolly Varden Hair Net." (For Hair Nets.) New York Merchandise Company. No. 24,536; June 20.
"Dora Dean Hair Net." (For Hair Nets.) New York Merchandise Company. No. 24,533; June 20.
"Fancy California Cherries." (For Boxed Cherries.) Penryn Fruit Company. No. 24,541; June 20.
"Fancy Gravensteins." (For Boxed Apples.) Sebastopol Apple-Growers Union. No. 24,554; June 20.
"Fluffy Puff." (For a Confection Containing Ice Cream Inclosed Within Pastry.) G. H. Garnet. No. 24,507; June 20.
"Fruit Loaf." (For Loaves of Bread.) Miller-Parrott Baking Co. No. 24,529; June 20.
"Goldwin." (For Brooms.) Gardner Broom Co. No. 24,504; June 20.
"Gorham Pie." (For Candy.) Gorham Chocolate Company, Inc. No. 24,509; June 20.
"Green's Original Chocolate Covered Raisin Cocoanut Cream Bar." (For Carton for Candy.) Green Bros. Co. No. 24,511; June 20.
"Honey Krust." (For Bread.) H. Graugnard No. 24,510; June 20.
"Huberd's Shoe Grease." (For Shoe Grease. J. W. Huberd. No. 24,512; June 20.
"Il Vincitor." (For Boxes Containing Cigars.) Petri Italian-American Cigar Co. No. 24,542; June 20.
"Infanzon & Rodriguez Porto Rican Planter." (For Cigars.) Infanzon & Rodriguez. No. 24,513; June 20.
"Jevne's" (For Biscuit Flour.) H. Jevne Company. No. 24,518; June 20.
"Jevne's Brown Mill." (For Coffee.) H. Jevne Co. No. 24,516; June 20.
"Jevne's Gingham." (For Coffee.) H. Jevne Co. No. 24,515; June 20.
"Jevne's Look for the Gingham Package." (For Rolled Oats.) H. Jevne Co. No. 24,517; June 20.
"Jevne's Look for the Gingham Package." (For Rolled Oats.) H. Jevne Co. No. 24,519; June 20.
"Jim-Dandy Bread." (For Bread.) Century Biscuit Co. No. 24,490; June 20.
"La Dasca." (For Cigars, Cigarettes, and Tobacco.) D. A. Schulte, Inc. No. 24,553; June 20.
"Live Oak Brand Tomatoes." (For Tomatoes.) North American Fruit Exchange. No. 24,537; June 20.
"Madagasco." (For a Preparation for the Hair.) W. M. O'Neall. No. 24,539; June 20.
"Madden's Creopine Cough Syrup." (For Cough Sirup.) Madden's Pharmacy. No. 24,525; June 20.
"Marsh Big Havana Wheeling." (For Stogies.) M. Marsh & Son, Inc. No. 24,526; June 20.
"Mejor Manteca Pura de Chicharron." (For Lard.) Joseph Stern & Sons Inc. No. 24,558; June 20.
"Moore Push-Pins." (For Push Pins.) Moore Push-Pin Company. No. 24,530; June 20.
"Morning Glory." (For Brooms.) Gardner Broom Co. No. 24,506; June 20.
"Moth K-L." (For a Liquid Preparation for Protection Against Moths.) Moth K-L Company, Incorporated. No. 25,531; June 20.
"Nek-Ritz's Iron Lustre." (For a Stove Gloss Preparation.) L. Nekritz. No. 24,532; June 20.
"Nuradium." (For a Medicinal and Pharmaceutical Preparation Consisting of Minute Particles of Radium Combined with Other Medicinal and Therapeutical Ingredients to Form Nuradium. Nuradium Company. No. 24,538; June 20.
"Oh! Sweetie." (For Candy.) Englewood Candy Mfg. Co. No. 24,503; June 20.
"Old Home Bread." (For Wax-Paper Bread Wrappers.) Menasha Printing and Carton Company. No. 24,528; June 20.
"Ovotone." (For Endocrine Gland Tablets.) Dr. J. M. Abelio. No. 24,481; June 20.
"Padu Knit." (For Hosiery.) Paducah Hosiery Mills, Inc. No. 24,540; June 20.
"Palatable Granules Vita-Yeast." (For Packages Containing a Food Tonic.) Drug Products Co. No. 24,500; June 20.
"Palatable Tablets Vita Yeast." (For Packages Containing a Food Tonic.) Drug Products Co. No. 24,499; June 20.
"Pee-Kay." (For a Sirup for Making Soft Drinks.) P. Kolbe. No. 24,523; June 20.
"Petti-Coulette." (For a Protective Undergarment for Women.) Solvos Company. No. 24,557; June 20.
"Pickaninny Freeze Eat Seeds 'n All." (For Ice-Cream or Analogous Confections, and More Particularly in the Form of Individual Frozen Dainties.) Pickaninny Freeze Company of America. No. 24,543; June 20.
"Polly Bread." (For Bread.) Dragon Paper Mfg. Co. No. 24,498; June 20.
"Put and Take All Rubber Patch." (For an All-Rubber Patch for Mending Automobile Tire, Inner Tubes, or Other Articles Made of Rubber or Fabric.) Put and Take Co. No. 24,544; June 20.
"Real Flax Dew Bleach." (For Handkerchiefs.) Wyman, Partridge & Co. No. 24,568; June 20.
"Remington Cutlery." (For Cutlery.) Remington Arms Company. No. 24,545; June 20.
"Rexblu." (For Washing Tablets in Powdered Form.) Stevens-Wiley Manfg. Co. No. 24,559; June 20.
"Rey De La Barba." (For Boxes and Cans Containing Cigars.) Rey de la Barba Cigar Co. No. 24,547; June 20.
"Rolly's Wonder." (For Complexion Soap.) Rolly Chemical Co. No. 24,549; June 20.
"Royal Juliet." (For Cigars.) R. Landman. No. 24,524; June 20.
"Royall's French Dressing." (For Bottles Containing Salad Dressing.) Cliwill Food Products, Inc. No. 24,492; June 20.
"Ruby Hair Net." (For Hair Nets.) New York Merchandise Company. No. 24,535; June 20.
"Saffic." (For Packages or Cartons Containing Fruit.) American Fresh Fruit Company. No. 24,482; June 20.
"Sands Prepared Cocoa Cubes." (For Cocoa.) Sands Cocoa Corporation. No. 24,550; June 20.
"Shur Oylus." (For Oils and Greases.) J. W. McArthur. No. 24,527; June 20.
"Sierra Club." (For Ginger Ale.) Henry-Brown Co. No. 24,488; June 20.
"Sprucine." (For Medicinal Ointment.) E. L. Sargent. No. 24,551; June 20.
"Sur-fa-Save." (For Paints.) Eclipse White Lead & Color Co. No. 24,501; June 20.
"Sweet Wheat Bread." (For Bread.) A. Yost & Son. No. 24,569; June 20.
"Tested and Approved Used Automobiles." (For Used Automobiles.) Chicago Automobile Trade Association. No. 24,491; June 20.
"The Chore Boy—243 Uses." (For Scouring Cloths.) R. B. Kingman. No. 24,522; June 20.
"The Green Lemon." (For Soap.) Internationala, Limited. No. 24,514; June 20.
"Tieton." (For Apples.) H. Johnston. No. 24,520; June 20.
"Trap Load." (For Loaded Shot Shells.) Remington Arms Company. No. 24,546; June 20.
"Tri-Une." (For a 3 in 1 Remedy for Tender Sweaty Feet, Perspiration Odors, Calli, and Corns.) Turlington Chemical Company. No. 24,561; June 20.
"TyRite." (For Ladies' and Men's Ties.) U. S. Neckwear Co. No. 24,562; June 20.
"Valley Forge Special Malt Extract." (For Malt Extract.) Adam Scheidt Brewing Company. No. 24,552; June 20.

"Van Ess Liquid Scalp Massage." (For Medical Preparations for the Treatment of the Hair and Scalp.) Van Ess Laboratories, Inc. Nos. 24,563–4; June 20.
"Van Ess Special Dandruff Massage." (For Medical Preparations for the Treatment of the Hair and Scalp.) Van Ess Laboratories, Inc. Nos. 24,565–6; June 20.
"Virgin Olive Oil." (For Olive Oil.) A. Gash. No. 24,508; June 20.
"Wheatsbest." (For Flour.) J. W. Milling Company. No. 24,496; June 20.
"White Rose." (For Brooms.) Gardner Broom Co. No. 24,505; June 20.
"Women's Apparel in Misses Sizes." (For Women's Apparel.) L. Bryant. No. 24,489; June 20.
"Wool's." (For Fruit Salad.) F. G. Wool Packing Company. No. 24,567; June 20.

ALPHABETICAL LIST OF PRINTS.

"A Gift Cake For Every Child To Make Them Enjoy Washing." (For Advertising Purposes for Palmolive Soap.) Palmolive Company. No. 6,172; June 20.
"Baker Brush." (For Advertising Purposes for Paint Brushes.) Baker Brush Co. Inc. No. 6,157; June 20.
"Boncilla." (For Advertising Purposes for a Beautifier.) Crown Chemical Company. No. 6,160; June 20.
"Brillo Makes Old Aluminum Utensils New." (For Advertising Purposes for Cleaning and Polishing Outfits for Aluminum Utensils.) Brillo Manufacturing Company. No. 6,158; June 20.
"Cas-Pirin." (For Advertising Purposes for Medicine, for Colds, La Grippe, Influenza, Headache.) Acme Drug Co. No. 6,154; June 20.
"Cream of Wheat." (For Advertising Purposes for Wheat Breakfast Food.) Cream of Wheat. No. 6,161; June 20.
"Encourage The Kiddies To Write And Draw." (For Advertising Purposes for Pony Desks.) C. L. Anderson. No. 6,156; June 20.
"Fruit and Nut Bars." (For Advertising Purposes for a Fruit and Nut Bar.) Milwaukee Paper Box Company. No. 6,167; June 20.
"Good Business." (For Advertising Purposes for Shaving Cream.) Palmolive Company. No. 6,174; June 20.
"'I have written a letter of recommendation for you, Céleste'." (For Advertising Purposes for Eaton's Highland Linen.) Eaton, Crane & Pike Company. No. 6,163; June 20.
"Knock 'em over." (For Advertising Purposes for a Game.) G. Schneider. No. 6,176; June 20.
"La Palina The Quality Cigar since 1896." (For Advertising Purposes for Cigars.) Congress Cigar Company. No. 6,159; June 20.
"Made Better Antiseptic Tooth Paste." (For Advertising Purposes for Tooth Paste.) Milwaukee Paper Box Company. No. 6,166; June 20.
"Making Palmolive 3,000 Years Ago." (For Advertising Purposes for Palmolive Soap.) Palmolive Company. No. 6,173; June 20.
"Mercury Speed Patch." (For Advertising Purposes for a Self-Vulcanizing Rubber Repair Patch.) Milwaukee Paper Box Company. No. 6,168; June 20.
"Off 'N' On Chains." (For Advertising Purposes for Automobile Tire Chains.) Off 'N' On Chain Corporation. No. 6,169; June 20.
"Rockwood Paper Pulleys." (For Advertising Purposes for Power Transmission Pulleys.) Rockwood Manufacturing Company. No. 6,175; June 20.
"Say Ben-Gay." (For Advertising Purposes for Baume Bengué.) T. Seltzer. No. 6,177; June 20.
"The Menter Plan of Home Budgets." (For Advertising Purposes for an Account Book Called The Menter Plan of Home Budgets.) Menter Co., Inc. No. 6,165; June 20.
"The Six Secrets of an Ideal Shaving Cream." (For Advertising Purposes for Shaving Cream.) Palmolive Company. No. 6,170; June 20.
"To Fair-Minded Men." (For Advertising Purposes for Shaving Cream.) Palmolive Company. No. 6,171; June 20.
"Toewear Facts." (For Advertising Purposes for Hosiery.) Toewear Hosiery, Inc. No. 6,178; June 20.
"Venus Everpointed Pencils." (For Advertising Purposes for Lead Pencils.) American Lead Pencil Company. No. 6,155; June 20.
"Weigh Lightest Fit Tightest." (For Advertising Purposes for Pistons.) Kant-Skore Piston Company. No. 6,164; June 20.
"'Where Healthy Babies Come From.'" (For Advertising Purposes for Wheat Breakfast Food.) Cream of Wheat Co. No. 6,162; June 20.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Accordions. Matth Hohner, Actiengesellschaft. No. 147,168; June 20.
Alloy and castings made therefrom, Nonrusting and corrosion-resisting. Metal and Alloy Specialties Company. No. 156,968; June 20.
Antiseptic pharmaceutical preparation. G. D. Searle and Company. No. 160,307; June 20.
Antiseptic solution and mouth wash. Larkin Co. No. 160,068; June 20.
Balls, Golf. Holmac, Inc. No. 154,364; June 20.
Beverage and sirup for making same. C. J. Schuster. No. 132,452; June 20.
Beverages sold as a soft drink. H. C. Schranck Co. No. 126,877; June 20.
Beverages sold as a soft drink. Gebr. Zuppinger. No. 142,189; June 20.
Beverages sold as soft drinks and sirups for making the same. Cherry Blossom Mfg. Co. No. 159,922; June 20.
Beverages sold as soft drinks and sirups for making the same. Cherry Blossom Mfg. Co. Nos. 159,926–8; June 20.
Beverages sold as soft drinks and sirups for making same. Cherry Blossom Mfg. Co. No. 159,932; June 20.
Books, pads, and tablets, etc., Blank. Boorum & Pease Company. No. 151,746; June 20.
Books published in series, Printed. E. P. Dutton & Company. No. 160,119; June 20.
Brakes for cycles, cycle hubs, and coaster brakes. New Departure Manufacturing Company. No. 161,937; June 30.
Brushes. Florence Manufacturing Company. No. 158,707; June 20.
Bulletin, Monthly trade. A. A. Eastman. No. 159,859; June 20.
Candy. Val. Blatz, Jr., Candy Co. No. 156,566; June 20.
Castings, Gray iron, malleable, and metallic. Frank Foundries Corporation. No. 157,418; June 20.
Castings, Nonferrous metal. Frontier Bronze Corporation. No. 156,272; June 20.
Cement. United Shoe Machinery Corporation. No. 148,013; June 20.
Cigars, Manufactured. H. Morrier. No. 146,790; June 20.
Cleaning closet bowls, Powder for. United Stores Supply Company. No. 158,586; June 20.
Cleaning compound for clothing, Panama hats, and leather goods. Mission Bead Company. No. 160,070; June 20.
Clothing. Apparel Products Co. No. 148,192; June 20.
Coal. Apex Coal Company. No. 158,814; June 20.
Coal. J. D. Walker Coal Company. No. 160,732; June 20.
Coals, Anthracite and bituminous. Hedstrom-Schenck Coal Co. No. 162,175; June 20.
Coats, Gunning. Star Sporting Goods Co. No. 157,590; June 20.
Coffee. Nash Coffee Company. No. 152,804; June 20.
Corks. Century Cork Co. No. 156,440; June 20.
Corsets, corset waists, brassières, etc. H & W Company. No. 154,025; June 20.
Cotton piece goods. Burton Bros. & Co. No. 160,532; June 20.
Cotton piece goods. Cohn Hall Marx Co. Nos. 160,657–8; June 20.
Cotton piece goods, Woven. Neuss, Hesslein & Co. No. 161,789; June 20.
Deodorant. Plough Chemical Company. No. 160,082; June 20.
Doll. K. H. Rogers. No. 151,532; June 20.
Dolls. H. Sardeau. No. 162,066; June 20.
Electrolytes. Kirkhart Electrical Co. No. 158,208; June 20.
Fabrics in the piece, made up draperies, etc., Cotton, cotton and silk, and cotton and artificial silk. Witcombe McGeachin & Co. No. 160,451; June 20.
Filters, Antisplash water. Seed Filter & Manufacturing Co. No. 161,282; June 20.
Fruits in their natural state, Citrus. M. F. Wilkins. No. 158,497; June 20.
Fungicide. Pittsburgh Plate Glass Company. No. 160,299; June 20.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Furniture and equipment, School. Standard School Equipment Co. No. 157,454; June 20.
Furs and skins in the piece. Herman Gabbe & Bro. No. 158,230; June 20.
Gas filters. Uehling Instrument Company. No. 160,569; June 20.
Gloves and mittens, Fabric. Boss Manufacturing Company. Nos. 157,852–3; June 20.
Gypsum, plaster of Paris, wall plaster, etc., Calcined. United States Gypsum Company. Nos. 159,440–1; June 20.
Gypsum, plaster of Paris, etc., Calcined. United States Gypsum Company. No. 159,444; June 20.
Gypsum, plaster of Paris, wall plaster, etc., Calcined. United States Gypsum Company. No. 159,632; June 20.
Hair dyes. M. Rochon. No. 159,981; June 20.
Hair nets. F. D. Ammidown. No. 160,042; June 20.
Hair nets. J. Fleischer. No. 161,547; June 20.
Hair nets. Meyer & Strompen. No. 161,785; June 20.
Hair preparation. J. Pupley. No. 160,250; June 20.
Hair tonics. S. Kovac. No. 160,354; June 20.
Handkerchiefs. Wilson Brothers. No. 161,516; June 20.
Hats and caps, Men's and boys'. J. Wall. No. 157,644; June 20.
Hosiery. C. Smith. No. 157,539; June 20.
Ice. Dallas Ice Factory. No. 160,931; June 20.
Ice, Artificial. Hygienic Artificial Ice Co. No. 161,998; June 20.
Insecticide. Glidden Company. No. 161,025; June 20.
Iron and steel used for lining plates for ball and pebble mills. Hardinge Company. No. 156,527; June 20.
Jewelry. R. Bengert. No. 152,982; June 20.
Journal of this organization, Official. National Marine Engineers' Beneficial Association. No. 155,111; June 20.
Journal published quarterly, Trade. R. S. Kennedy. No. 159,207; June 20.
Jumping stick. Pogo Company. No. 154,757; June 20.
Knitted, netted, and textile fabrics. Duplan Silk Corporation. Nos. 156,984–5; June 20.
Lacings, dress belting, galloons, braids, etc., Shoe, underwear, and blouse. Walker Webbing Co. No. 155,291; June 20.
Leatherboard and counterboard. George O. Jenkins Company. No. 161,131; June 20.
Leathers, Cup. Mark Manufacturing Company. No. 152,685; June 20.
Magazine, Monthly. Readers' Publishing Corporation. No. 160,902; June 20.
Magazines published monthly. John Martin's House, Inc. No. 157,620; June 20.
Mattresses. John Hoey & Co. No. 158,713; June 20.
Medicinal preparation for the reduction of superfluous flesh. Minus Pharmacal Co. No. 160,072; June 20.
Medicinal vitamine products. Northwestern Yeast Company. No. 158,638; June 20.
Medicine. Bielek Manufacturing Company. No. 151,700; June 20.
Metals and alloys, Ferrous and nonferrous. Electro Metallurgical Company. No. 158,706; June 20.
Mouth washes, pyorrhea preparations, tooth paste. Painless Parker Dentist. No. 140,963; June 20.
Music rolls or sheets, Perforated. Filmusic Company. No. 128,773; June 20.
Newspaper column. New York Tribune. No. 157,679; June 20.
Newspaper section. Star Company. No. 159,432; June 20.
Oil, tomato sauce, and macaroni, Olive. Italian Supply Co. No. 158,617; June 20.
Paper, Bleached and unbleached sulphite. W. A. Armstrong. No. 162,370; June 20.
Paper, Gummed. Central Paper Company. No. 151,147; June 20.
Paper, Handmade. C. H. Boulin. No. 159,787; June 20.
Paper products. Brown Company. No. 133,181; June 20.
Pencils, chalk, lead, and ink cores for pencils, Lead, etc. J. S. Staedtler. No. 153,316; June 20.
Pens, Support for fountain. L. K. Desmond. No. 153,873; June 20.
Periodical, Monthly. Houston Publishing Company. No. 161,254; June 20.
Periodical, Monthly. R. S. Monger. No. 158,940; June 20.
Periodicals. Webb Publishing Company. No. 157,975; June 20.
Periodicals, Monthly. Webb Publishing Company. No. 157,976; June 20.
Pile fabrics in the piece. Amertex Mills, Inc. No. 160,849; June 20.
Powders or fillers, Whipping. Joe Lowe Co. No. 150,757; June 20.
Preparations for the teeth and mouth. Western Dental Mfg. Company. No. 158,461; June 20.
Prints, pictures, and illustrations. R. John. No. 158,186; June 20.
Publication, Annual. V. H Brownscombe. No. 157,826; June 20.
Publication, Monthly. Bunting Publications, Inc. Nos. 159,842–4; June 20.
Publication, Monthly. W. H. Fawcett. No. 159,792; June 20.
Publication, Monthly. James F. Newcomb & Co. No. 160,958; June 20.
Publications, Monthly. Popular Radio, Inc. No. 161,012; June 20.
Publications, Monthly. Charles Scribner's Sons. No. 159,057; June 20.
Publications, Monthly. Shea Smith & Co. No. 160,263; June 20.
Refrigerators. E. J. Dequenther. No. 161,355; June 20.
Rubber patches, Sheet-. W. W. Stiles. No. 151,337; June 20.
Sand and gravel, Washed. Rosoff Sand & Gravel Corp. No. 158,401; June 20.
Shingles. Central West Coal & Lumber Company. No. 148,709; June 20.
Shirts, Work. Feldman & Weinman. No. 157,608; June 20.
Silk and cotton piece goods. Clarence Whitman & Son, Inc. No. 161,814; June 20.
Silk piece goods. H. R. Mallinson & Co. No. 161,561; June 20.
Silk piece goods, Broad. Duplan Silk Corporation. No. 161,239; June 20.
Silverplated tableware and articles plated with precious metal. T. N. Benedict Mfg. Co. No. 144,497; June 20.
Sound-reproducing machines. Odeola Cabinets and Phonografs Company. No. 114,578; June 20.
Spraying mixtures for use on fruit trees, Product used in preparing. California Central Creameries. No. 159,850; June 20.
Tires, inner tubes, tire covers, etc. A. L. Hunt. No. 131,214; June 20.
Topcoats. Joseph Elstein & Sons. No. 157,604; June 20.
Toy animals, toy balloons, etc. H. R. Colwell. No. 158,695; June 20.
Toy houses and automobiles, Cardboard. Cellu-Metal Corporation. No. 161,621; June 20.
Violins, violas, tango banjos, etc., Strings for. Gibson Musical String Co. No. 148,222; June 20.
Vitamine compound used in the treatment of anæmic, debilitated, and weakened conditions of the human system. E. I. Runner. No. 158,153; June 20.
Watches. Stein & Ellbogen Company. No. 150,778; June 20.
Window-light frames for vehicle tops. Snaplok Company. No. 143,367; June 20.
Wool, Processed. Philadelphia Wool Scouring and Carbonizing Company. No. 160,503; June 20.
Woolen piece goods. Forstmann & Huffmann Company. Nos. 161,421–4; June 20.
Woolen piece goods. Forstmann & Huffmann Company. No. 161,433; June 20.

CLASSIFICATION OF PATENTS

ISSUED JUNE 20, 1922.

NOTE.—First number=class, second number=subclass, third number=patent number.

1— 3: 1,420,227
2— 42: 1,419,990
73: 1,420,248
106: 1,420,032
122: 1,419,940
130: 1,420,361
144: 1,420,176
3— 7: 1,420,330
12: 1,420,122
4— 5: 1,420,452
32: 1,420,420
5— 4: 1,420,101
13: 1,420,450
55: 1,419,957
57: 1,420,134
1,420,582
9— 3: 1,420,459
10— 4: 1,420,410
27: 1,420,005
98: 1,420,013
123: 1,419,939
12— 4: 1,420,572
14: 1,420,573
1,420,574
27: 1,420,161
15— 15: 1,420,172
33: 1,420,540
36: 1,420,375
197: 1,420,363
210: 1,420,123
229: 1,420,169
1,420,180
1,420,525
253: 1,420,538
16— 39: 1,420,415
42: 1,420,602
45: 1,420,190
128: 1,420,481
164: 1,420,326
201: 1,420,503
202: 1,420,280
17— 6: 1,419,985
20: 1,420,200
18— 1: 1,420,287
6: 1,420,371
45: 1,420,488
1,420,490
57: 1,419,911
19— 20: 1,420,136
20— 1: 1,419,995
1.01: 1,419,960
1.13: 1,420,494
20: 1,420,087
100: 1,420,430
22— 4: 1,420,464
117: 1,420,586
23— 1: 1,420,201
1,420,202
1,420,209
1,420,477
13: 1,419,971
24: 1,420,198
1,420,213
1,420,346
1,420,399
28: 1,419,986
1,420,203
24— 19: 1,420,460
68: 1,420,372
87: 1,420,027
129: 1,420,487
133: 1,420,370
135: 1,420,034
143: 1,420,219
198: 1,420,588
224: 1,420,177
25— 105: 1,420,093
131: 1,420,166
29— 1: 1,420,074
19: 1,420,359
23.5: 1,420,278
1,420,338
33: 1,420,323
84: 1,420,339
1,420,424
86.3: R. 15,388
86.4: 1,420,507
29— 96: 1,419,967
1,420,171
103: 1,419,917
105: 1,420,068
148.2: 1,419,972
157.4: 1,420,241
30— 3: 1,420,442
1,420,456
9: 1,420,342
31— 101: 1,420,421
33— 27: 1,420,319
98: 1,420,175
130: 1,420,607
133: 1,420,612
148: 1,420,105
34— 4: 1,420,454
5: 1,420,144
30: 1,420,367
46: 1,420,296
36— 17: 1,420,461
24: 1,419,998
71: 1,420,492
73: 1,420,302
37— 5: 1,420,605
62: 1,420,522
40— 2: 1,420,249
1,420,335
126: 1,420,433
135: 1,420,345
146: 1,420,603
41— 13: 1,420,086
42— 19: 1,420,471
86: 1,419,961
43— 12: 1,420,396
42: 1,420,422
47: 1,420,228
69: 1,420,384
73: 1,420,229
119: 1,420,536
148: 1,420,601
44— 1: 1,420,165
9: 1,420,006
1,420,007
45— 13: 1,419,945
52: 1,420,082
82: 1,420,439
97: 1,420,145
1,420,268
110: 1,420,404
116: 1,420,126
117: 1,419,978
46— 14: 1,420,072
21: 1,420,230
1,420,334
22: 1,420,308
27: 1,420,065
1,420,437
37: 1,419,976
1,420,225
40: 1,420,584
45: 1,420,505
46: 1,419,923
63: 1,420,400
47— 41: 1,420,191
48— 87: 1,420,570
180: 1,420,090
1,420,615
1,420,616
210: 1,420,041
49— 9: 1,419,910
39: 1,420,018
51— 216: 1,420,286
250: 1,420,568
52— 6: 1,420,364
53— 6: 1,420,466
55— 77: 1,420,351
94: 1,420,451
107: 1,420,482
56— 26: 1,420,309
58— 2: 1,420,549
56: 1,420,583
134: 1,420,447
140: 1,420,261
59— 52: 1,420,517
61: 1,420,518
62— 69: 1,420,088
64— 24: 1,419,983
64— 26: 1,420,025
31: 1,420,585
33: 1,420,416
37: 1,420,497
55: 1,420,077
65— 53: 1,420,061
65: 1,420,297
66— 12: 1,420,530
68— 3: 1,420,178
10: 1,420,206
32: 1,420,157
70— 14: 1,420,186
1,420,215
1,420,226
53: 1,420,483
113: 1,420,578
129: 1,420,205
71— 9: 1,420,596
72— 30: 1,420,020
1,420,478
45: 1,420,220
59: 1,420,246
82: 1,420,571
96: 1,420,294
102: 1,420,521
121: 1,420,040
73— 52: 1,420,022
1,420,038
74— 1: 1,420,360
14: 1,419,984
1,420,048
1,420,555
20: 1,420,236
33: 1,420,446
1,420,462
34: 1,420,253
36: 1,420,054
39: 1,420,299
50: 1,420,599
54: 1,420,479
55: 1,420,121
59: 1,420,272
1,420,502
1,420,514
81: 1,420,290
93: 1,420,137
108: 1,419,928
1,420,014
1,420,551
109: 1,420,406
110: 1,420,552
1,420,553
119: 1,420,554
120: 1,420,150
1,420,151
75— 45: 1,420,328
76— 46: 1,420,547
65: 1,420,489
102: 1,420,527
107: 1,420,276
78— 5: 1,420,577
47: 1,420,196
80— 11: 1,420,239
81— 3: 1,420,240
13: 1,420,519
15: 1,420,064
61: 1,420,467
91: 1,420,116
134: 1,420,409
166: 1,420,058
177: 1,420,279
191: 1,419,936
82— 42: R. 15,390
83— 11: 1,420,031
1,420,354
1,420,355
44: 1,419,946
60: 1,420,412
84: 1,420,163
85: 1,420,138
1,420,139
1,420,164
84— 40: 1,420,238
94: 1,420,109
130: 1,420,594
411: 1,420,233
457: 1,419,919
85— 2.4: 1,419,979
11: 1,420,528
21: 1,419,981
86— 30: 1,419,941
87— 5: 1,419,952
21: 1,420,322
88— 1: 1,420,491
58: 1,419,918
89— 1: 1,420,520
90— 41: 1,420,600
58: 1,420,321
59: 1,420,029
1,420,147
91— 4: 1,420,436
60: 1,420,306
68: 1,420,173
92— 14: 1,420,303
20: 1,420,362
21: 1,419,951
44: 1,419,982
1,420,135
70: 1,420,060
94— 33: 1,420,535
95— 1.1: 1,420,440
10: 1,420,096
65: 1,420,053
97— 4: 1,419,974
22: 1,420,024
27: 1,420,526
30: 1,420,576
42: 1,420,423
52: 1,419,953
54: 1,420,108
81: 1,419,909
98— 3: 1,420,002
6: 1,420,141
9: 1,420,142
99— 2: 1,420,008
5: 1,420,557
1,420,558
8: 1,420,373
1,419,956
101— 44: 1,420,187
368: 1,420,376
102— 24: 1,420,176
39: 1,420,300
103— 72: 1,420,052
104— 51: 1,419,964
107: 1,420,112
172: 1,420,115
105— 367: 1,420,386
416: 1,420,352
436: 1,419,992
106— 11: 1,420,284
40: 1,420,028
107— 9: 1,420,486
14: 1,420,066
56: 1,420,567
57: 1,420,102
58: 1,420,378
111— 25: 1,420,465
1,420,550
112— 35: 1,419,997
1,420,580
38: 1,419,991
57: 1,419,996
143: 1,420,414
237: 1,420,413
113— 112: 1,420,016
1,420,182
114— 24: 1,420,231
221: 1,420,243
115— 0.5: 1,419,977
24: 1,420,579
116— 23: 1,419,968
47: 1,420,343
53: 1,420,124
78: 1,419,954
114: 1,420,110
119: 1,420,265
129: 1,420,295
119— 35: 1,420,092
53: 1,419,950
98: 1,420,349
115: 1,419,989
120— 18: 1,420,275
96: 1,420,539
121— 25: 1,420,318
58: 1,420,009
134: 1,420,559
194: 1,420,411
122— 479: 1,420,344
123— 59: 1,420,266
106: 1,419,963
148: 1,420,340
169: 1,420,159
1,420,565
182: 1,420,282
126— 9: 1,420,043
20: 1,420,562
36: 1,420,495
92: 1,420,264
97: 1,420,204
128— 12: 1,420,493
51: 1,420,049
81: 1,420,085
129— 8: 1,420,050
13: 1,420,333
130— 1: 1,419,926
17: 1,420,593
131— 12: 1,420,117
51: 1,420,089
132— 36: 1,419,933
62: 1,420,500
79: 1,420,523
84: 1,420,581
133— 5: 1,420,377
10: 1,420,285
134— 32: 1,420,289
137— 139: 1,420,119
138— 9: 1,420,146
139— 9: 1,420,504
14: 1,420,262
85: 1,420,529
1,420,560
92: 1,420,390
141— 9: 1,420,418
143— 163: 1,420,234
171: 1,420,218
144— 1: 1,420,591
64: 1,419,999
96: 1,420,104
289: 1,420,244
145— 31: 1,420,484
111: 1,420,291
146— 3: 1,420,263
7: 1,420,341
9: 1,420,017
12: 1,420,235
14: 1,420,062
19: 1,420,021
150— 34: 1,420,232
49: 1,420,542
152— 8: 1,420,158
1,420,251
11.5: 1,420,245
12: 1,420,499
14: 1,420,149
1,420,533
18: 1,420,392
22: 1,420,081
52: 1,420,393
153— 19: 1,420,427
32: 1,419,929
1,420,336
38: 1,420,179
54: 1,420,042
1,420,506
70: 1,420,608
81: 1,420,383
154— 1: 1,420,271
14: 1,420,611
27: 1,420,162
155— 31: 1,419,947
80: 1,420,368
140: 1,420,095
157— 1: 1,419,922
158— 1.5: 1,420,141
27.4: 1,420,107
47: 1,420,208
88: 1,420,003
106: 1,420,277
112: 1,420,405
162— 1: 1,420,419
162— 4: 1,420,380
164— 29: 1,420,468
1,420,469
90: 1,420,252
168— 30: 1,420,331
169— 22: 1,420,192
1,420,269
170— 156: 1,420,313
171— 119: 1,420,103
123: 1,420,398
173— 324: 1,420,435
175— 215: 1,420,515
294: 1,420,385
355: 1,420,314
177— 337: 1,420,030
178— 89: 1,420,618
179— 6: 1,420,317
17: R. 15,389
180— 1: 1,420,307
4: 1,420,267
20: 1,419,916
35: 1,420,498
43: 1,420,387
69: 1,420,292
181— 32: 1,419,943
183— 32: 1,420,366
184— 11: 1,420,125
103: 1,420,083
185— 41: 1,420,120
188— 203: 1,420,152
221: 1,420,274
259: 1,420,281
189 34: 1,420,473
67: 1,420,100
72: 1,420,457
76: 1,420,099
190— 11: 1,420,511
12: 1,420,057
55: 1,419,934
191— 12: 1,420,350
39: 1,420,541
42: 1,420,407
43: 1,420,408
63: 1,419,955
68: 1,420,131
192— 55: 1,420,214
116: 1,419,914
1,420,071
196— 25: 1,420,613
197— 16: 1,419,259
127: 1,419,991
191: 1,419,970
198— 8: 1,420,118
11: 1,420,207
199— 62: 1,420,595
200— 24: 1,420,012
1,420,026
43: 1,420,575
50: 1,420,111
63: 1,420,569
67: 1,420,382
74: 1,420,381
77: 1,420,472
91: 1,420,067
106: 1,420,510
204— 5: 1,420,037
1,420,212
15: 1,420,128
1,420,129
1,420,130
57: 1,420,127
58: 1,420,211
64: 1,420,181
1,420,561
205— 29: 1,420,223
1,420,224
206— 4: 1,420,598
208— 38: 1,420,394
42: 1,420,597
210— 2: 1,420,250
27: 1,420,046
173: 1,420,508
176: 1,420,283
211— 11: 1,420,069
16: 1,420,004
1,420,534
24: 1,419,944

211— 31: 1,420,080
1,420,260
1,420,403
32: 1,419,966
41: 1,420,154
213— 39: 1,420,183
67: 1,420,106
214— 47: 1,420,431
49: 1,420,078
86: 1,420,369
119: 1,420,310
144: 1,420,548
215— 14: 1,420,545
37: 1,419,921
51: 1,420,320
86: 1,419,912
217— 22: 1,420,444
60: 1,420,347
66: 1,420,148
89: 1,420,019
219— 34: 1,419,935
35: 1,420,160
76: 1,420,189
220— 22: 1,420,305
32: 1,420,391
41: 1,420,293
61: 1,420,063
73: 1,420,463
221— 15: 1,419,988
112: 1,420,327
138: 1,420,170
222— 4: 1,420,153
223— 15: 1,420,474
1,420,475
1,420,480
224— 29: 1,420,143
1,420,445
1,419,958
1,419,965
226— 38: 1,420,011
1,420,039
84: 1,420,325
95: 1,420,222
229— 16: 1,420,001
24: 1,420,453
33: 1,420,000
72: 1,420,470
230— 27: 1,420,587
30: 1,419,915
1,419,930
33: 1,420,155
1,420,496
235— 92: 1,420,311
236— 25: 1,420,513
46: 1,420,348
53: 1,420,045
74: 1,420,091
237— 12.3: 1,420,301
238— 148: 1,420,389
164: 1,420,614
188: 1,420,070
195: 1,420,566
234: 1,420,216
260: 1,419,973
238— 298: 1,420,168
240— 1: 1,420,133
1,420,184
1,420,185
4: 1,420,059
7: 1,420,075
8.5: 1,420,167
41: 1,420,524
48.2: 1,419,942
61: 1,419,949
62: 1,420,564
115: 1,419,920
241— 6: 1,419,924
8: 1,420,604
242— 70: 1,420,056
84.7: 1,420,428
124: 1,420,094
244— 1: 1,420,592
2: 1,420,449
1,420,606
1,420,609
1,420,610
12: 1,420,193
1,420,194
15: 1,419,962
25: 1,420 509
29: 1,420,247
246— 163: 1,420,357
1,420,425
1,420,426
294: 1,420,132
380: R. 15,391
248— 3: 1,420,353
22: 1,420,197
36: 1,419,931
1,419,932
249— 59: 1,420,401
250— 2: 1,420,256
1,420,257
1,420,258
12: 1,420,254
20: 1,420,055
33: 1,420,255
34: 1,420,395
41: 1,420,485
251— 16: 1,420,397
100: 1,420,434
144: 1,420,288
1,420,429
147: 1,420,035
252— 1,420,512
253— 5: 1,420,332
254— 95: 1,420,556
102: 1,420,113
1,420,114
255— 35: 1,420,044
51: 1,420,417
61: 1,420,365
72: 1,420,242
256— 52: 1,420,140
257— 35: 1,420,402
84: 1,420,210
125: 1,420,590
258— 20: 1,420,374
259— 53: 1,420,270
134: 1,420,079
188: 1,420,537
260— 165: 1,419,969
261— 41: 1,419,993
46: 1,420,356
262— 6: 1,419,980
263— 8: 1,420,379
26: 1,420,501
266— 33: 1,420,312
267— 27: 1,420,098
58: 1,420,047
268— 4: 1,149,937
271— 8: 1,420,084
28: 1,420,458
274— 30: 1,420,316
35: 1,419,913
1,419,938
46: 1,420,304
276— 40: 1,420,363
277— 65: 1,420,073
279— 24: 1,420,388
280— 33.2: 1,420,174
33.7: 1,420,188
281— 15: 1,420,324
285— 162: 1,420,217
286— 10: 1,419,927
287— 26: 1,420,589
93: 1,420,033
290— 52: 1,420,076
291— 34: 1,420,438
292— 210: 1,420,358
293— 41: 1,420,036
54: 1,419,959
294— 15: 1,420,546
28: 1,420,273
43: 1,420,516
50: 1,419,987
90: 1,420,010
93: 1,420,532
295— 49: 1,420,221
296— 1: 1,420,023
35: 1,420,298
44: 1,420,051
48: 1,420,617
95: 1,420,443
116: R. 15,392
145: 1,420,455
298— 19: 1,420,315
299— 54: 1,419,925
140: 1,419,948
301— 3: 1,420,156
6: 1,420,199
11: 1,420,448
17: 1,420,195
35: 1,420,329
38: 1,419,975
63: 1,420,097
1,420,337
66: 1,420,432
302— 20: 1,420,544
36: 1,420,015
51: 1,420,543
303— 28: 1,420,237
305— 10: 1,420,531

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 27TH DAY OF JUNE, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abbott, Adrian O., Jr., Detroit, Mich., assignor to Morgan and Wright. Mold for heavy-truck tire flaps. No. 1,420,803; June 27.

Abrams, Isaac, Jersey City, N. J. Vest, jacket, and the like. No. 1,421,131; June 27.

Abramson, Nathan, New York, N. Y. Electric time switch. No. 1,420,902; June 27.

Ackermann, Frank B. (See Steffan, W. C. Ackermann, and Greiner.)

Acuff, Frank E., Chicago, Ill. Valve mechanism. No. 1,421,132; June 27.

Adams, Charles S., assignor to Rice & Adams Corporation, Buffalo, N. Y. Washing machine. No. 1,421,055; June 27.

Adams, Walter L., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Antibacklash attachment for fishing reels. No. 1,420,804; June 27.

Aktiebolaget Lidköpings Mekaniska Verkstad. (See Olsson, Karl and A. H., assignors.)

Aktiebolaget Svenska Kullagerfabriken. (See Palmgren, Nils A., assignor.)

Albertson & Company. (See Albertson, Frans O., assignor.)

Albertson, Frans O., assignor to Albertson & Company, Sioux City, Iowa. Valve-refacing apparatus. No. 1,421,133; June 27.

Allard, J Frank, Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,421,134; June 27.

Alling, Edward R., and F. F. Wolf, assignors to Rice & Adams Corporation, Buffalo, N. Y. Can-inverting device for can-washing machines and the like. No. 1,421,056; June 27.

Allsteelequip Company. (See Erickson, Axel F., assignor.)

Alton, Francis O., Waterbury, Conn. Auxiliary air inlet for internal-combustion engines. No. 1,421,135; June 27.

Aluminum Company of America. (See Varney, Theodore, assignor.)

Aluminum Manufactures, Incorporated. (See Amick, Clair J., assignor.)

American Investigation Corporation. (See Schuette, Johann, assignor.)

American Optical Company. (See Bugbee, Lucian W., assignor.)

American Pulley Company, The. (See Sharpless, John F., Jr., assignor.)

American Stove Company. (See Meacham, Benjamin E., assignor.)

American Thermos Bottle Company. (See Walker, W. B., and Visscher, assignors.)

Amick, Clair J., assignor, by mesne assignments, to Aluminum Manufactures, Incorporated, Cleveland, Ohio. Metal mold. No. 1,420,903; June 27.

Anderson, August, Independence, Kans. Eccentric lever. No. 1,421,136; June 27.

Anderson, Chester L., and J. T. Smith, Springfield, Mass. Pipe wrench. No. 1,421,137; June 27.

Anderson, Emil E. W., Stockholm, Sweden. Gas meter. No. 1,421,138; June 27.

Anderson, John M. S., assignor to The General Machine and Manufacturing Company, Bridgeport, Conn. Bottle stopper. No. 1,421,118; June 27.

Anderson, William J., Hyde, England. Hat shield or pad. No. 1,421,139; June 27.

Andreae, Edward F., Newark, N. J., assignor to General Lead Batteries Company. Storage-battery terminal. No. 1,420,675; June 27.

Angell, Emmett D., Milwaukee, Wis. Support. No. 1,420,676; June 27.

Angerer, Victor, Ridley Park, assignor to William Wharton, Jr., and Company, Incorporated, Easton, Pa. Integral guard rail. No. 1,421,342; June 27.

Angus, Matthew. (See Denton, F. G. and Angus.)

Anhydrous Food Products Company. (See Beckworth, O. Q., and Hobson, assignors.)

Anninger, Mario, Trieste, Italy. Gas meter. No. 1,421,140; June 27.

Ardizzoni, Guy, New York, N. Y. Binding machine. No. 1,420,677; June 27.

Ardo, Joseph, Newhall, W. Va. Valve mechanism. No. 1,421,119; June 27.

Armington, Arthur A., et al., executors. (See Wardwell, Simon W.)

Armitage, Marjorie B., Colorado Springs, Colo. Signal. No. 1,421,141; June 27.

Asaturian, Setrak, New York, N. Y. Animal feed receptacle. No. 1,421,142; June 27.

Aschauer, Charles J., Decatur, Ill. Building construction. No. 1,421,143; June 27.

Askren, Earl J., J. F. Worman, and C. F. Zwick, Indianapolis, Ind. Shield for motor radiators. No. 1,421,120; June 27.

Assereto, Andrea, and L. Caccioppoli, Savona, Italy. Plant for utilizing pulverized solid fuels. No. 1,420,904; June 27.

Atherton, Fred K., and C. F. Webb; said Webb assignor of his entire right to C. P. Petersen, Racine, Wis. Burglar alarm. No. 1,421,144; June 27.

Automatic Recording Safe Company. (See Fisher, Charles, assignor.)

Bachmann, Wilhelm. (See Zsigmondy, R., and Bachmann.)

Baehr, Arthur D., Detroit, Mich. Toy aeroplane. No. 1,420,805; June 27.

Bailey, Robert L., Detroit, Mich. Crank shaft. No. 1,420,905; June 27.

Baker, Frederick C., Portland, Oreg. Lighting fixture. No. 1,420,806; June 27.

Baker, Hartley O., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Pump drive apparatus. No. 1,420,807; June 27.

Baker, Joseph, Sons and Perkins Company. (See Hole, Herbert W., assignor.)

Baker Steam Motor Car and Manufacturing Co., The. (See Baker, Hartley O., assignor.)

Banfield, Arthur C., assignor to Adam Hilger, Limited, London, England. Projection apparatus for gauging screw threads. No. 1,421,057; June 27.

Banks, John S., Norfolk, Va. Hollow concrete wall. No. 1,421,145; June 27.

Bardsley, Willard W., et al., executors. (See Wardwell, Simon W.)

Barkschat, Henry, assignor of one-half to E. B. Blinn, Los Angeles, Calif. Lantern construction. No. 1,421,058; June 27.

Barr, John H. (See Jones, T. D., and Barr.)

Barr, Mary, executrix. (See Jones, T. D., and Barr.)

Barrett Company, The. (See Swenson, George E., assignor.)

Barrows, Allan S., Chicago, Ill. Fire door or shutter. No. 1,421,146; June 27.

Bartholdy, Max, Karlskoga, Sweden, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Hole gauge. No. 1,420,951; June 27.

Barton, Robert W., Chicago, Ill. Propeller-controlling mechanism. No. 1,420,619; June 27.

Bashara, Samuel F., Houston, Tex. Means for locking valves. No. 1,421,059; June 27.

Batdorf, Charles S., Brooklyn, N. Y. Machine for making paper cups. No. 1,420,808; June 27.

Bate, John W., Racine, Wis. Extension handle. No. 1,420,809; June 27.

Battner, Stephen, Brooklyn, N. Y. Pneumatic-action unit. No. 1,420,678; June 27.

Baxter, Ernest W., Van Wert, Ohio. Attachment for motor vehicles. No. 1,421,147; June 27.

Bean, Guy M., Los Angeles, Calif. Interlocking brick and the like. No. 1,420,810; June 27.

Beckley, Theodore B., New Orleans, La. Collar button and clasp. No. 1,421,148; June 27.

Beckworth, Otto Q., and O. J. Hobson, Chicago, Ill., assignors, by mesne assignments, to Anhydrous Food Products Company. Process and apparatus for dehydrating. No. 1,420,679; June 27.

Bedwin, Clark D., Long Beach, Calif. Water heater. No. 1,421,149; June 27.

Bell, Harvey W., Yonkers, and H. L. Hoyt, Jr., Great Neck, N. Y. Spring suspension. No. 1,420,680; June 27.

Bell, James C., assignor of one-half to R. Clark, Murrayville, Ill. Holding corset stays in place. No. 1,421,121; June 27.

Benedict, T. N., Mfg. Co. (See Saunders, Albert F., assignor.)

Bennet, Charles G., Rochester, N. Y. Fireproof lock box. No. 1,421,150; June 27.

Bennett, Arthur, Hollinwood, England. Machine for splicing up the ends of cotton, linen, and other threads. No. 1,421,151; June 27.

Bentley, Samuel E., Springfield, Mass. Safety pin. No. 1,420,952; June 27.

Berman, Harry L., Roxbury, Mass. Key placing and removing tool. No. 1,421,152; June 27.
Berry, Charles H., Detroit, Mich. Compensating gauge. No. 1,420,953; June 27.
Beskow, Bernhard M., Miami, Fla. Receptacle. No. 1,420,906; June 27.
Bethlehem Steel Company. (See Madden, J. P., and Fisher, assignors.)
Beuc, Jacob. (See Mesker, F., and Beuc.)
Bickel, Henry F., Plainfield, N. J., and B. J. Minnier, Watertown, N. Y. Dust collector. No. 1,420,954; June 27.
Billings, Frank, and R. P. Greenleaf, Cleveland, Ohio; said Greenleaf assignor to said Billings. Loading machine. No. 1,420,681; June 27.
Bird, Walter, Morrilton, Ark. Dasher mechanism for churns. No. 1,420,955; June 27.
Bisey, Sunker A., New York, N. Y. Spiritualistic communication apparatus. No. 1,420,956; June 27.
Bishop, John A., Clearwater, Fla. Oil-burning apparatus. No. 1,420,957; June 27.
Bixler, L. B. Henry, and W. L., Fresno, Calif. Garment conveyer. No. 1,420,907; June 27.
Bixler, William L. (See Bixler, L. B. Henry, and W. L.)
Blanchard, Thomas R., and E. B. Kenefic, Minneapolis, Minn. Retort furnace. No. 1,420,958; June 27.
Blinn, Edmond B. (See Barkschat, Henry, assignor.)
Bogaty, Hermann, assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Looping device for driers. No. 1,421,153; June 27.
Bologh, Philip, New York, N. Y. Skylight ventilator. No. 1,421,154; June 27.
Booth, George W., Islington, Ontario, Canada. Tunnel kiln. No. 1,421,155; June 27.
Booth, Lionel B., Cambridge, England. Objective for photographic and like purposes. No. 1,421,156; June 27.
Bouton, Edgar M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system and apparatus. No. 1,421,157; June 27.
Bowen, David R., and C. F. Schnuck, assignor to Farrel Foundry and Machine Company, Ansonia, Conn. Machine for treating rubber or other plastic material. No. 1,420,959; June 27.
Bowers, Fred D., Sugargrove, Pa. Division board for beehives. No. 1,420,960; June 27.
Bown, David E., Crafton, Pa. Lamp socket. No. 1,421,122; June 27.
Boyle, Peter J., Saginaw, Mich. Beet digger. No. 1,421,123; June 27.
Bradley, Henry, Caulfield, near Melbourne, Victoria, Australia. Means for disinfecting sanitary pans and the like. No. 1,421,348; June 27.
Bradshaw, Charles D. (See Harness, C. D., and Bradshaw.)
Bradshaw, Granville, Sunbury-on-Thames, England. Cooling internal-combustion engine. No. 1,420,684; June 27.
Brady, Michael E., Traverse City, Mich. Sawmill carriage. No. 1,420,961; June 27.
Brandt, Lewis, Pittsburgh, Pa. House construction. No. 1,421,124; June 27.
Brenneis Manufacturing Company. (See Ward, C. E., and Harris, assignors.)
Brenneis Manufacturing Company. (See Ward, Clayton E., assignor.)
Brenner, Louis, New York, N. Y. Lady's apparel. No. 1,421,062; June 27.
Breuer, Jacob, Marion, Va. Power belt. No. 1,420,962; June 27.
Brewster, Guy S., Seattle, Wash. Lock for milk-can tops. No. 1,420,811; June 27.
Brierly, George E., Detroit, Mich. Washing machine. No. 1,420,963; June 27.
Bright, Fred E., New York, N. Y. Chuck. No. 1,420,682; June 27.
Bright, Fred E., New York, N. Y. Apparatus for machining work pieces. No. 1,420,683; June 27.
Brook, Basil B., Aberdeen, Wash. Soil or turf renovating brush harrow. No. 1,421,060; June 27.
Brooks, Herbert, Ipswich, assignor to Petters Limited, Yeovil, Somerset, England. Starting lamp for internal-combustion engines. No. 1,421,158; June 27.
Brown, Arnold V., Oak Park, Ill. Tip for webbing. No. 1,420,812; June 27.
Brown, Charles H., Ranger, Tex. Grapple. No. 1,421,159; June 27.
Brown, Ida, San Francisco, Calif. Hose-supporter clasp. No. 1,421,061; June 27.
Brown, James M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Controller. No. 1,421,160; June 27.
Brown, William S. (See Davis, C. W., and Brown.)
Browne, Warren A., Hempstead, N. Y. Toy. No. 1,421,161; June 27.
Bruce, William M., et al. (See Galopin, Henri, assignor.)
Buck, Homer A., Oakland, assignor to G. Moore, San Francisco, Calif. Making binder for pigments. No. 1,421,125; June 27.
Buckham, George T. (See Dawson, A. T., and Buckham.)
Buckingham, Harry, et al., administrators. (See Mathews, Thomas.)
Buckley, Minerva R., Fort Scott, Kans. Auto dress. No. 1,421,162; June 27.
Bugbee, Lucian W., assignor to American Optical Company, Southbridge, Mass. Bright and black goggles. No. 1,420,964; June 27.
Burch, Henry K., Warren, Ariz. Revolving screen or grizzly. No. 1,420,685; June 27.
Burdick, Charles A., Kenosha, Wis. Pencil sharpener. No. 1,421,063; June 27.
Burrows, Charles E., Vestal, N. Y. Reverse motion. No. 1,421,163; June 27.
Burrows, Henry, Poulton-le-Fylde, England. Preparation of a metallic jointing compound. No. 1,420,908; June 27.
Burtt, Winslow J. (See Cole, C. D., and Burtt.)
Bushnell, Alvah, Company. (See Bushnell, Alvah, Jr., assignor.)
Bushnell, Alvah, Jr., assignor to Alvah Bushnell Company, Philadelphia, Pa. Binding strap. No. 1,421,164; June 27.
Busse, Edwin G., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake beam. No. 1,421,064; June 27.
Butt, Herbert G. (See Callan, Frank J., assignor.)
Button, George W., and M. Sierad, New York, N. Y. Dispenser and container for perfumes. No. 1,420,965; June 27.
Buttram, William H., assignor of one-half to R. Kobel, one-fourth to W. D. Mayo, and one-fourth to J. M. Mayo, Sallisaw, Okla. Rim tool. No. 1,420,813; June 27.
Bystrom, John, Chicago, Ill. Loose-leaf binder. No. 1,421,126; June 27.
Caccioppoli, Lorenzo. (See Assereto, A., and Caccioppoli.)
Callan, Frank J., deceased, Boston, by A. E. Reimer, executor, Boston, assignor to H. G. Butt, Winthrop, Mass. Quick-acting pipe vise. No. 1,421,065; June 27.
Campbell, John A., Carbondale, Ill. Stamping device. No. 1,420,686; June 27.
Campbell, Leon W., Providence, R. I. Flier for roving frames. No. 1,420,966; June 27.
Candee, Andrew H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulating system. No. 1,421,165; June 27.
Cannon, James H., Los Angeles, Calif. Drier for paper-ruling machines. No. 1,421,166; June 27.
Caproni, Gianni, Milan, Italy. Flying machine. No. 1,420,620; June 27.
Carlson, Alexander, New York, N. Y. Folding seat. No. 1,421,167; June 27.
Carrington, William D., Inver Grove, Minn. Signal flag. No. 1,420,967; June 27.
Carscadin, Charles A. (See Woodman, George A., assignor.)
Carter, Daniel. (See Roach, P. J., and Carter.)
Cassidy, John P., Aurora, Ontario, Canada. Pipe lifter. No. 1,420,621; June 27.
Castle, Samuel N., New Rochelle, N. Y. Electric furnace. No. 1,420,687; June 27.
Central Railway Signal Company. (See Dutcher, Frank, assignor.)
Centrifugal Gun Corporation. (See Lombard, Levi W., assignor.)
Champlin, Charles W., assignor of one-half to S. Higby, Cedar Falls, Iowa. Car seal. No. 1,420,968; June 27.
Charbonneaux, Edward A., San Francisco, Calif. Gaseous fuel. No. 1,420,622; June 27.
Charm, Hyman, Dorchester, Mass. Container for electric wires. No. 1,421,168; June 27.
Cheshire, Milton F., Chicago, Ill., assignor to T. A. Cheshire, Des Moines, Iowa. Addressing machine. No. 1,420,814; June 27.
Cheshire, Thomas A. (See Cheshire, Milton F., assignor.)
Chicago Railway Equipment Company. (See Busse, Edwin G., assignor.)
Chism, William J., Cleveland, Ohio. Nut lock. No. 1,421,127; June 27.
Christensen, Carl V. J., et al., executors. (See Wardell, Simon W.)
Christian, Ralph F., Chicago, Ill. Casket handle. No. 1,420,815; June 27.
Chmura, John, Marmarth, N. Dak. Automatic corkscrew. No. 1,421,169; June 27.
Chubb, Lewis W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit interrupter. No. 1,421,170; June 27.
Clark, Edward W., deceased, by Security Trust & Savings Bank, executor, Los Angeles; said Clark assignor of one-fourth to S. S. Turner, one-fourth to S. M. Clark, and one-fourth to V. E. Turner, Los Angeles, Calif. Article of manufacture. (Reissue.) No. 15,393; June 27.
Clark, James H., Detroit, Mich. Vehicle wheel. No. 1,421,128; June 27.
Clark, Roy. (See Bell, James C., assignor.)
Clark, Susie M., et al. (See Clark, Edward W., assignor.) (Reissue.)
Clarke, Frederick F., and E. R. Inman, Franklin, Pa. Turntable for automobiles. No. 1,421,066; June 27.
Clausen, Holger V., New York, N. Y. Garment supporter. No. 1,421,171; June 27.
Clausen, Martin J., Seattle, Wash. Valve-leak indicator. No. 1,420,909; June 27.
Clayton & Lambert Manufacturing Company. (See Groehn, Otto J., assignor.)
Clayton, William F., Huntsville, Ala. Picker-stick check for looms. No. 1,421,172; June 27.

Clement, Hans, New York, N. Y., assignor to General Optical Company, Inc. Accessory for ophthalmometers. No. 1,421,173; June 27.
Clifton, William E. (See Ewart, J. S., and Clifton.)
Coffin, Charles F., Jr. (See Mork, H. S., and Coffin, Jr.)
Cohen, Hyman E., Syracuse, N. Y. Electric boiler. No. 1,420,693; June 27.
Cohen, Hyman E., Brooklyn, N. Y. Electric water heater and steam generator. No. 1,420,692; June 27.
Cole, Chester D., and W. J. Burtt, Haverhill, Mass. Adjustable hook for antiskid chains. No. 1,420,816; June 27.
Collier, Arthur R., New Southgate, England. Locking device. No. 1,420,910; June 27.
Collingwood, Sherman R., Wichita, Kans. Rolling radiator shutter. No. 1,421,174; June 27.
Conrad, Harry C., et al. (See Kennedy, James W., assignor.)
Converse, Francis B., assignor to The Norwalk Tire and Rubber Company, Norwalk, Conn. Making tire casings. No. 1,420,623; June 27.
Cooper, Charles M., Oklahoma, Okla. Car door. No. 1,420,969; June 27.
Cope, Carson C., assignor, by mesne assignments, to The Windsor Manufacturing Company, Windsor, Colo. Hay-stacker. No. 1,421,175; June 27.
Cornell, Charles G., Jr., New York, N. Y. Forming die. No. 1,420,970; June 27.
Cory, Charles, & Son, Incorporated. (See Wood, Frank W., assignor.)
Coulombe, Joseph C., Lowell, Mass. Vacuum fuel-feed device. No. 1,421,067; June 27.
Covi, John B., Far Rockaway, N. Y., assignor to General Motors Corporation, Detroit, Mich. Supporting bar and hinge construction for automobile hoods. No. 1,421,068; June 27.
Craig, James, Andover, Mass. Door for railway cars of the dumping-car type. No. 1,420,971; June 27.
Cramer, Anton M., Arendal, Norway. Concrete wall. No. 1,421,129; June 27.
Crémieu, Victor, Paris, France. Cooling liquids and charging the same with gas by the use of snow-like carbonic anhydride. No. 1,421,176; June 27.
Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,420,817; June 27.
Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,420,818; June 27.
Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,420,819; June 27.
Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,420,820; June 27.
Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,421,069; June 27.
Crippen & Reid. (See Winchester, Albert G., assignor.)
Crosby, Fred W., Garnett, Kans. Door-operating mechanism. No. 1,421,177; June 27.
Cummings, William W., Woburn, Mass. Fluid-mixing device. No. 1,421,130; June 27.
Custer, Herman, assignor to Custer Manufacturing Company, Stoyestown, Pa. Filling device and indicator. No. 1,420,624; June 27.
Custer Manufacturing Company. (See Custer, Herman, assignor.)
Cutler-Hammer Mfg. Co., The. (See Hunter, Richard B., assignor.)
Cutler-Hammer Mfg. Co., The. (See Meyer, Friedrich W., assignor.)
Cutler-Hammer Mfg. Co., The, Milwaukee, Wis. (See Stoekle, Erwin R., assignor.)
Daraban, Charles J. (See Parker, G., and Daraban.)
Dasen, Paul H., Ottosen, Iowa. Clutch-control lock. No. 1,420,821; June 27.
Davis, Charles C., Richmond, Va. Chain. No. 1,421,178; June 27.
Davis, Charles W., deceased, Edgeworth, and W. S. Brown, Pittsburgh, Pa., M. W. Davis and P. H. W. Smith, executors; said Brown and said executors assignors to Standard Underground Cable Company, Pittsburgh, Pa. Apparatus for building up laminate insulation and like structures. No. 1,420,911; June 27.
Davis, Decatur W., Louisville, Ky. Latching hook. No. 1,420,912; June 27.
Davis, Harvey N., Cambridge, Mass., assignor to Research Corporation, New York, N. Y. Liquefaction of air. No. 1,420,625; June 27.
Davis, Harvey N., Cambridge, Mass., asignor to Research Corporation, New York, N. Y. Interchanger turbine. No. 1,420,626; June 27.
Davis, Margaret W., et al., executors. (See Davis, C. W., and Brown.)
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance-firing mechanism. No. 1,420,972; June 27.
Day, Robert L., Hungtington, W. Va. Building. No. 1,420,973; June 27.
Day, William P., Cleveland, Ohio. Rail-supporting structure. No. 1,420,974; June 27.
Dean, Henry C. (See Loman, F. A. and A. L., and Dean.)
De Brüine, Frederik H., Bandoeng, Java., East Indies. Ranging a rapidly-moving object and apparatus therefor. No. 1,420,913; June 27.
De Camp, Ray E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system and switch mechanism therefor. No. 1,421,179; June 27.
De Camp, Ray E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,421,180; June 27.
Decker, Charles I., Sherman, Calif. Tonneau windshield. No. 1,421,181; June 27.
De Guardia-Calmètes, Paul, Perpignan, France. Machine for the transformation of reeds into slats or strips. No. 1,420,914; June 27.
Deichmann, Artur, Cologne-Marienburg, Germany. Golf-stroke counter. No. 1,421,070; June 27.
De Laitte, Leopold B., assignor, by mesne assignments, to M. Erdin, San Francisco, Calif. Cook stove. No. 1,420,688; June 27.
De Mier, Fred, Picher, Okla. Ore jig. No. 1,420,975; June 27.
Denton, Frederick G., and M. Angus, Low Fell, Gateshead, England. Packing for glands, stuffing boxes, and the like. No. 1,421,356; June 27.
Detroit Pressed Steel Company. (See Putnam, Alden L.)
Detroit Torch & Manufacturing Company. (See Lindhorst, Frederick L., assignor.)
Dewey, Daniel D., and L. G. Sawdy, Escanaba, Mich. Trousers presser. No. 1,420,822; June 27.
Dexter, Bayard P. (See Dexter, Fred A. and B. P., and Stuard.)
Dexter, Fred A., B. P. Dexter, Orange, Mass., and J. A. Stuard, Harrisburg, Pa.; said B. P. Dexter and said J. A. Stuard, assignors to said Fred A. Dexter. Machine for facing or dressing gate valves. No. 1,420,915; June 27.
Dickerson, Glenn H., and A. Venderveld, assignors to Dickerson Glue Jointer Company, Grand Rapids, Mich. Lumber-joining machine. No. 1,420,976; June 27.
Dickerson Glue Jointer Company. (See Dickerson, G. H., and Vanderveld, assignors.)
Dickinson and Company. (See Dickinson, Hal, assignor.)
Dickinson, Hal, assignor to Dickinson and Company, Inc., Minneapolis, Minn. Storm and glare shield. No. 1,421,182; June 27.
Dinkins, Earl T., Houston, Tex. Trap. No. 1,420,823; June 27.
Ditson, Jesse, Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Hoist. No. 1,421,183; June 27.
Doherty Research Company. (See Fisher, James P., assignor.)
Dome, Jacob, York, Pa. Check valve. No. 1,421,184; June 27.
Donle, Harold P., Meriden, Conn. Rectifier. No. 1,420,824; June 27.
Dorey, William A., Newark, Ohio, assignor to Holophane Glass Company, Inc., New York, N. Y. Illuminating appliance. No. 1,420,977; June 27.
Dougan, Kennedy, Minneapolis, Minn. Temperature regulator. No. 1,420,916; June 27.
Dow Chemical Company, The. (See Dow, Herbert H., assignor.)
Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Insecticide and making same. No. 1,420,978; June 27.
Dowdall, James T., Glen Morris, N. Y. Hat sweatband. No. 1,420,689; June 27.
Dowdall, James T., Glen Morris, N. Y. Sweatband for straw and other hats. No. 1,420,690; June 27.
Draper Corporation. (See Youngquist, Henry W., assignor.)
Driscoll, Roy A., Great Falls, Mont. Electric furnace. No. 1,421,185; June 27.
Duff, Cyril, Providence, R. I. Wood-bending device. No. 1,421,186; June 27.
Duncan, John N., Boone, Iowa. Post step or bracket. No. 1,420,825; June 27.
Dupré, Wilfred, Worcester, Mass. Wringer mop. No. 1,421,071; June 27.
Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Explosive tablet for railway signal torpedoes. No. 1,421,187; June 27.
Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal torpedo. No. 1,421,188; June 27.
Duval, John W., Pittsburgh, Pa. Advertising machine. No. 1,420,627; June 27.
Eagan, Patrick J., San Francisco, Calif. Baggage check. No. 1,420,991; June 27.
Ehlich, Eugene, Endicott, N. Y. Tire and puncture-proof protector therefor. No. 1,420,979; June 27.
Eichenberger, Ferdinand, assignor to the firm S.-A. Kummler & Matter, Aarau, Switzerland. Manufacturing electrical resistance material. No. 1,420,980; June 27.
Elder, James E., Highwood, Mont. Wood-sawing machine. No. 1,420,950; June 27.
Electric Fruit Marking Machine Co. (See Neuenschwander, Lewis, assignor.)
Electric Heating Corporation. (See Macy, Barnett W., assignor.)

Elliott, George E., Baltimore, Md. Radiator. No. 1,420,917; June 27.
Elliott-Fisher Company. (See Foothorap, Harry A., assignor.)
Elliott, J., and W. A., Company. (See Richmond, Robert E., assignor.)
Ellis, Frederick A., Jr., London, England. Detachable wheel for automobiles. No. 1,421,189; June 27.
Elsenbast, Arthur S., and W. L. Jordan, New York, N. Y. Insulating cement or mortar. No. 1,421,192; June 27.
Elyria Enameled Products Company, The. (See Slough, Frank M., assignor.)
Elyria Iron & Steel Company, The. (See McKee, Willis, assignor.)
Emerson-Brantingham Company. (See Thomson, Byron C., assignor.)
Emerson-Brantingham Company. (See Traphagen, Harry R., assignor.)
Emet, Matts L., Springfield, Mass. Universal joint and making the same. No. 1,421,072; June 27.
Enterprise Manufacturing Company, The. (See Adams, Walter L., assignor.)
Epworth, Charles E., Brooklyn, N. Y. Gas heater. No. 1,421,190; June 27.
Erdin, May. (See de Laitee, Leopold B., assignor.)
Erickson, Albert N., Elmhurst, N. Y., assignor to Union Carbide & Carbon Research Laboratories, Inc. Removing phosphorus from vanadium solutions. No. 1,421,191; June 27.
Erickson, Axel F., assignor to the Allsteelequip Company, Aurora, Ill. Stacking tote box. No. 1,420,992; June 27.
Essex Rubber Company. (See Phillips, Raymond H., assignor.)
Esty, Marion A., Eldon, Mo. Road machine. No. 1,420,981; June 27.
Etowah Foundry and Machine Company. (See Owen, Evan J., assignor.)
Evans, William P., Manchester, England. Support or bearing for drying cylinders and such like. No. 1,421,193; June 27.
Everett, Edward A., New York, N. Y., assignor to Nande Corporation. Track-drilling machine. No. 1,421,194; June 27.
Ewart, John S., and W. E. Clifton, Nottingham, England. Chromatropes. No. 1,420,982; June 27.
Eyrich, Harold R., Phoenixville, Pa., and J. A. Schreiber, Chicago, assignors to The Paper De-Inking Co., Chicago, Ill. Removing ink from printed paper. No. 1,421,195; June 27.
Farrel Foundry and Machine Company. (See Bowen, D. R., and Schnuck, assignors.)
Farum, Elecie P., Oakland, assignor to D. Lee, San Francisco, Calif. Lock for slidable windows. No. 1,420,993; June 27.
Fasci, Sebastiano, South Weymouth, Mass. Automobile signal. No. 1,420,983; June 27.
Federal Telephone and Telegraph Co. (See Garretson, Eugene, assignor.)
Fehlman, Bernard F., Denver, Colo. Underreamer. No. 1,420,918; June 27.
Fennimore, Watson D., San Francisco, Calif. Display card. No. 1,421,196; June 27.
Fernholtz, Frederick W., Los Angeles, Calif. Mechanism for converting rotary motion into reciprocating motion. No. 1,420,826; June 27.
Ferrara, Antonio, Torrington, Conn. Lock. No. 1,421,197; June 27.
Fidora, Mario C., Turin, Italy. Spring stretcher with compressible grips for rationally developing the human physical strength. No. 1,421,198; June 27.
Field, William S., assignor to Sanitas Twin Tooth Brush Corp., New York, N. Y. Toothbrush. No. 1,421,199; June 27.
Fike, Oliver, Madisonville, Ky. Scraper. No. 1,420,919; June 27.
Findley, Ella C., Victoria, British Columbia, Canada. Switch. No. 1,420,984; June 27.
Fireman, Peter, Trenton, N. J., assignor to Magnetic Pigment Company. Pigment and producing the same. No. 1,420,985; June 27.
Fish, Geo. L., Corporation. (See Fish, George L., assignor.)
Fish, George L., Modesto, Calif., assignor, by mesne assignments, to Geo. L. Fish Corporation, Reno, Nev. Valve. No. 1,420,994; June 27.
Fisher, Charles, assignor to The Automatic Recording Safe Company, Chicago, Ill. Machine for applying a cover or binding to a casing section. No. 1,420,827; June 27.
Fisher, James P., Bartlesville, Okla., assignor, by mesne assignments, to Doherty Research Company, New York, N. Y. Apparatus for removing suspended matter from gases. No. 1,420,986; June 27.
Fisher, Lafayette. (See Madden, J. P., and Fisher.)
Flanagan, Liberty K., Kansas City, Mo. Smoke consumer. No. 1,421,200; June 27.
Flexo Motive Corporation. (See Hupp, Irvin, assignor.)
Flint, Charles W., Chicago, Ill. Guide showing comparative express and parcel-post shipping rates. No. 1,420,828; June 27.
Floeter, Frederick S., Saginaw, Mich. Lathe. No. 1,420,987; June 27.
Foehl, Fred T., Brooklyn, N. Y. Pliers. No. 1,420,988; June 27.
Fondiller, William, assignor to Western Electric Company, Incorporated, New York, N. Y. Transformer. No. 1,420,989; June 27.
Foote Bros. Gear & Machine Co. (See Foote, J. B., and Strite, assignors.)
Foote, John B., Oak Park, Ill., and G. T. Strite, Minneapolis, Minn., assignors to Foote Bros. Gear & Machine Co., Chicago, Ill. Gearing for tractors. No. 1,420,995; June 27.
Foothorap, Harry A., assignor to Elliott-Fisher Company, Harrisburg, Pa. Writing-adding machine. No. 1,421,201; June 27.
Ford, John W., assignor, by mesne assignments, to Spyroseal Manufacturing Company, St. Louis, Mo. Piston ring. No. 1,421,202; June 27.
Ford, John W., assignor, by mesne assignments, to Spyroseal Manufacturing Company, St. Louis, Mo. Making piston rings. No. 1,421,203; June 27.
Forsyth, George H., Harvey, Ill. Disk wheel. No. 1,420,651; June 27.
Fox, Joseph C., Seattle, Wash. Liquid-level indicator for automobile tanks. No. 1,420,628; June 27.
Frank, Ernst, assignor to Patent-Treuhand-Gesellschaft fur elektrische Gluhlampen m. b. H., Berlin, Germany. Manufacture of hollow glass bodies particularly for electric glowlamp bulbs. No. 1,420,996; June 27.
Frank, Maxwell C., Piedmont, Calif. Attachment for electric switches. No. 1,420,829; June 27.
Frankenstein, Henry, New York, N. Y. Carpet-sweeper attachment. No. 1,420,830; June 27.
Franklin Railway Supply Company. (See Sampson, Leslie G., assignor.)
Freeman, Arthur A., Oakland, Calif. Combined tire gauge and filling valve. No. 1,420,997; June 27.
French, John H., et al. (See Gore, William M., assignor.)
Fried. Krupp Aktiengesellschaft. (See Bartholdy, Max, assignor.)
Fried. Krupp Aktiengesellshaft. (See Schön, Ludwig, assignor.)
Friede, Julian S., assignor to Moon Motor Car Company, St. Louis, Mo. Cushion. No. 1,420,990; June 27.
Fritz, Louis, Memphis, Tenn. Woodworking machinery. No. 1,421,204; June 27.
Fritz, Louis. (See Sommers, W., and Fritz.)
Fuller, Rufus W., Deerfield, assignor to Production Machine Company, Greenfield, Mass. Work holding and feeding device for grinding or polishing machines. No. 1,421,205; June 27.
Fullwood, Robert A., Tucumcari, N. Mex. Windmill. No. 1,420,652; June 27.
Furness, George T., and L. R. Senn, Syracuse, N. Y. Tool-adjusting micrometer. No. 1,421,073; June 27.
Fürst, Jakob, Zurich, Switzerland. Lift jack. No. 1,420,831; June 27.
Gagliazzo, Carlo, Ronco Biellese, Italy. Typewriter. No. 1,420,998; June 27.
Gagnon, Albert, et al. (See Gagnon, Peter J., Jr., assignor.)
Gagnon, Peter J., Jr., assignor of one-third to J. L. Henderson and one-third to A. Gagnon, Lowell, Mass. Automatic feed regulator for machines having air separators. No. 1,421,343; June 27.
Galbraith, Isaac J., Chicago, Ill. Automatically-adjustable wrench. No. 1,421,206; June 27.
Gallup, Delbert. (See Quinn, E. V., and Gallup.)
Galopin, Henri, Melbourne, Victoria, assignor to W. M. Bruce, Traralgon, and J. N. Matheson, Sale, Victoria, Australia. Speed, time, and quantity recording instrument. No. 1,421,352; June 27.
Garbarini, André, et al. (See Mauclaire, Louis, assignor.)
Garman, Charles F., Ventura, Calif. Fruit cutter. No. 1,421,207; June 27.
Garretson, Eugene, assignor to Federal Telephone and Telegraph Co., Inc., Buffalo, N. Y. Audibility meter. No. 1,421,355; June 27.
Garrett, James O., Denver, Colo. Truck brake or lock. No. 1,420,999; June 27.
Gas Research Company, The. (See Smith, Harry F., assignor.)
Gauldie, Kenneth, Glasgow, Scotland. Bearing. No. 1,421,208; June 27.
Gaunt, Charles F., Birmingham, England. Machine for indenting characters on metal plates or other like articles. No. 1,421,074; June 27.
Gautier, Georges, et al. (See Mauclaire, Louis, assignor.)
Gedvillas, William, Madison, Ill. Animal trap. No. 1,420,833; June 27.
Gehrer, Fred W., Chicago, Ill. Alcohol heater. No. 1,421,209; June 27.
General Lead Batteries Company. (See Andreae, Edward F., assignor.)
General Machine and Manufacturing Company, The. (See Anderson, John M. S., assignor.)
General Machine & Manufacturing Co., The. (See Hjorth, David, assignor.)
General Motors Corporation. (See Covi, John B., assignor.)
General Optical Company. (See Clement, Hans, assignor.)
General Railway Signal Company. (See Howe, Winthrop K., assignor.)
George, Russell D., Boulder, Colo. Cracking oils. No. 1,420,832; June 27.
Getz, Vernon C., Lebanon, Ind. Incubator. No. 1,421,075; June 27.

Gibson, Joseph P., Spring Valley, Ill. Trunk shoe box. No. 1,420,920; June 27.
Gilbert, James E., and G. W. Harris, assignors to Gilbert Slip Sheeting Machine Company, Chicago, Ill. Mechanical sheet stop for smut-sheet machines. No. 1,420,653; June 27.
Gilbert Slip Sheeting Machine Company. (See Gilbert, J. E., and Harris, assignors.)
Giles, Harvey, Brooklyn, assignor to A. Ward, New York, N. Y. Coin-controlled vending machine. No. 1,420,834; June 27.
Giles, Harvey, Brooklyn, N. Y. Coin-controlled vending machine. No. 1,420,835; June 27.
Gilson, Dayton H., Rushville, Ind. Driving attachment for tractors. No. 1,421,076; June 27.
Ginn, Carrelvernon B., assignor of one-half to P. D. Ginn, Brenham, Tex. Testing machine for motor vehicles. No. 1,421,000; June 27.
Ginn, Paul D. (See Ginn, Carrelvernon B., assignor.)
Godfrey, Alfred, London, England. Cutting torch. No. 1,420,921; June 27.
Goldman, Sigmund L., Chicago, Ill. Bottle capper. No. 1,420,836; June 27.
Goldsmith, Hugo, Cincinnati, Ohio. Abdominal protector. No. 1,421,077; June 27.
Good, Robert, Washington, Pa., assignor to Hazel Atlas Glass Co. Method of and apparatus for the manufacture of glass. No. 1,421,210; June 27.
Good, Robert, Washington, Pa., assignor to Hazel Atlas Glass Co. Manufacture of glass. No. 1,421,211; June 27.
Goodrich, B. F., Company, The. (See Moon, Alfred E., assignor.)
Goodrich, B. F., Company, The. (See Pierce, Robert C., assignor.)
Goodsell, Harry H., Vandergrift, Pa. Annealing box. No. 1,421,212; June 27.
Goodwin, Adam M., Wilkinsburg, Pa. Reversing mechanism. No. 1,421,213; June 27.
Gore, William M., Toledo, Ohio, assignor of one-fourth to J. H. French, one-fourth to W. F. Tant, one-fourth to M. T. Watson, and one-fourth to J. G. Hamblen, Jr., Detroit, Mich. Switch box. No. 1,420,694; June 27.
Gould Coupler Company. (See Creveling, John L., assignor.)
Graham, Howard C., St. Joseph, Mo. Automatic train stop. No. 1,421,078; June 27.
Grant, James W., Bridgeport, Conn., assignor to F. J. Kline, Long Island City, N. Y. Paper clasp. No. 1,420,654; June 27.
Gray, George O., Butte, Mont. Decimal-point device for chart readers. No. 1,420,695; June 27.
Gray, Peter, & Sons Inc. (See Kelsea, Clarence H., assignor.)
Greene, John S., Rochester, N. Y., assignor to Photostat Corporation, Providence, R. I. Photographic-developing apparatus. No. 1,421,079; June 27.
Greenleaf, Robert P. (See Billings, F., and Greenleaf.)
Greiner, Walter J. (See Steffan, W. C., Ackermann, and Greiner.)
Groehn, Otto J., assignor to Clayton & Lambert Manufacturing Company, Detroit, Mich. Torch burner. No. 1,420,696; June 27.
Groehn, Otto J., assignor to Clayton and Lambert Manufacturing Company, Detroit, Mich. Wide-mouth torch burner. No. 1,420,697; June 27.
Gruver, David H., deceased; J. R. Gruver, executor, assignor to J. R. Gruver, Augusta, Kans. Power take-off. No. 1,421,214; June 27.
Gruver, J. R., executor. (See Gruver, David H.)
Guelbaum, David, Syracuse, N. Y. Wickless oil burner for lighting and heating. No. 1,421,215; June 27.
Guild, Walter C., Marionville, Mo. Inner-tube protector. No. 1,420,655; June 27.
Gunning, Alfred. (See Gunning, Chriss and A.)
Gunning, Chriss and A., Lansford, N. Dak. Blower-discharge-pipe-operating device. No. 1,421,080; June 27.
Gutekunst, George, and C. Mag, Pittsburgh, Pa. Razor-honing device. No. 1,420,656; June 27.
Habermann, Alfred, Munich, Germany. Artificial knee joint. No. 1,421,216; June 27.
Hacking, Edward, Pawtucket, R. I. Electric storage battery. No. 1,421,217; June 27.
Hagen, William F., Manitowoc, Wis. Spark-plug cleaner. No. 1,421,001; June 27.
Hagen, William F., Manitowoc, Wis. Door-operating mechanism. No. 1,421,002; June 27.
Haggart, George S., et al. (See Kennedy, James W., assignor.)
Hall, Frederick C., assignor to Jenckes Spinning Company, Pawtucket, R. I. Loom for weaving cord-tire fabrics. No. 1,421,081; June 27.
Hall, John H., and R. D. Jordan, assignors to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Melting ferromanganese. No. 1,421,218; June 27.
Hall, Samuel N., Los Angeles, Calif. Thrust bearing. No. 1,421,082; June 27.
Hallauer, Carl H., Los Angeles, Calif. Intake manifold for internal-combustion engines. No. 1,420,922; June 27.
Hamblen, Joseph G., Jr., et al. (See Gore, William M., assignor.)
Hammond, John H., Jr., Gloucester, Mass. Teledynamic orientation system. No. 1,420,629; June 27.
Handley, George F. (See Hess, E. B., and Handley.)
Hanks, George R., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Dredge bucket. No. 1,421,345; June 27.
Hans, Edmund E., Detroit, Mich. Purifier for lubricating oils. No. 1,420,837; June 27.
Hanson, Herman, Garfield, Minn. Weeder and pulverizer. No. 1,420,698; June 27.
Harmon, Robert, New York, N. Y. Attachment for medicine bottles. No. 1,421,219; June 27.
Harness, Charles D., Xenia, and C. D. Bradshaw, Lucasville, Ohio. Corn planter. No. 1,420,923; June 27.
Harris, Ford W. (See Ward, C. E., and Harris.)
Harris, Glenn W. (See Gilbert, J. E., and Harris.)
Hart, Albert J., assignor of three-fourths to E. E. Kline, W. R. Wright and F. N. Hunt, Cromwell, Ind. Combination tool. No. 1,421,220; June 27.
Harter, Emile, Paris, France. Radiator for explosion engines. No. 1,421,221; June 27.
Hartnett, John F., assignor to The Warner Brothers Company, Bridgeport, Conn. Loop for hose supporters and the like. No. 1,421,222; June 27.
Hartzell, William N., and H. A. Weiss, Butler, Pa. Garment hanger. No. 1,421,003; June 27.
Hasemeier, Ralph E., Shreveport, La. Shock absorber for vehicles. No. 1,421,223; June 27.
Hatfield, John, Brooklyn, N. Y. Spring-supporting mechanism for spring wheels. No. 1,421,224; June 27.
Haupt, Mathias, Roscoe, Minn. Snowplow. No. 1,421,225; June 27.
Hawley, George C., Rochester, N. Y. Scow or float for house boats and means for propelling same. No. 1,421,226; June 27.
Hazel Atlas Glass Co. (See Good, Robert, assignor.)
Heading, Harry, Hanging Rock, Ohio. Envelope. No. 1,421,227; June 27.
Heimbucher, Gottlieb A., Chicago, Ill. Apparatus for treating oil-bearing shale. No. 1,421,228; June 27.
Held, Siegfried, assignor of one-half to A. Kaestner, Chicago, Ill. Apparatus for ozonizing fluids. No. 1,420,838; June 27.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,421,229; June 27.
Henderson, Arthur B., Hurley, N. Mex. Work holder. No. 1,421,230; June 27.
Henderson, J. L., et al. (See Gagnon, Peter J., Jr., assignor.)
Henninger, Philip E., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Machine element. No. 1,421,231; June 27.
Henrie, George M., assignor of one-third to J. W. Stoverink and one-third to W. A. Mueller, St. Louis, Mo. Spring wheel. No. 1,420,839; June 27.
Herrmann, Joseph, Buffalo, N. Y. Carrying rack for automobile curtains. No. 1,420,699; June 27.
Hess, Edward B., New York, and G. F. Handley, Glendale, assignors to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. No. 1,421,083; June 27.
Hewitt, George W., Bakersfield, Calif. Portable water heater. No. 1,420,840; June 27.
Hibbard, Howard H., assignor to Hibbard Petroleum Company, Los Angeles, Calif. Well pump. No. 1,421,004; June 27.
Hibbard Petroleum Company. (See Hibbard, Howard H., assignor.)
Hicks, William W., San Francisco, Calif. Electric heating core. No. 1,421,084; June 27.
Higby, Seward. (See Champlin, Charles W., assignor.)
Hilger, Adam, Limited. (See Banfield, Arthur C., assignor.)
Hilger, Adam, Limited. (See Twyman, Frank, assignor.)
Hinzke, Albert G., Thunder Bay, Ontario, Canada. Sulphur burner. No. 1,421,232; June 27.
Hixson, Arthur W., Leonia, N. J. Dried yeast and making the same. No. 1,420,630; June 27.
Hjorth, David, New York, N. Y., assignor to The General Machine & Manufacturing Co., Bridgeport, Conn. Pendant switch. No. 1,421,085; June 27.
Hobson, Oliver J. (See Beckworth, O. Q., and Hobson.)
Hodgen, Charles E. (See Wetzel, Carl G., assignor.)
Hoffman, Alfred W., New York, N. Y. Calipers. No. 1,420,700; June 27.
Hoffman, Keva, Chicago, Ill. Wrench for shut-off valves or the like. No. 1,420,701; June 27.
Hogan, John J., St. Louis, Mo. Detachable arm for reclining chairs. No. 1,420,924; June 27.
Hohmann, Phillip H., and E. E. Innis, Laurel, Mont. Stove. No. 1,421,233; June 27.
Holden, Edward A. T., Duluth, Minn. Automatic gas-controlling device. No. 1,420,702; June 27.
Hole, Herbert W., Willesden Junction, London, England, assignor to Joseph Baker Sons and Perkins Company, Incorporated, White Plains, N. Y. Biscuit cutting and embossing machine. No. 1,421,349; June 27.
Holland, William W., Chicago, Ill. Anticreeping device. No. 1,420,703; June 27.
Holophane Glass Company, Inc. (See Dorey, William A., assignor.)
Holt, William H., Omaha, Nebr. Damper-regulating means for furnaces. No. 1,420,704; June 27.
Hooven & Allison Company, The. (See Regan, Albert L., assignor.)
Hopper Cannery Machinery Co. (See Hopper, Ernest W., assignor.)

Hopper, Ernest W., assignor to Hopper Cannery Machinery Co., Seattle, Wash. Can-cooling device. No. 1,420,841; June 27.
Horvath, Geza, Highland Park, Mich. Chain. No. 1,420,705; June 27.
Houghton, Myrtle B., Portland, Oreg. Toy. No. 1,421,234; June 27.
Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Automatic train-control system. No. 1,421,005; June 27.
Howell, Edward B., Butte, Mont. Block mold. No. 1,421,006; June 27.
Howell, Henry W., Butte, Mont. Building wall. No. 1,421,007; June 27.
Hoyt, Hazen L., Jr. (See Bell, H. W., and Hoyt.)
Hubachek, Rudolph, New Brunswick, N. J. Handle for dishes. No. 1,421,235; June 27.
Hudson, Elet W. (See Roy, E. D., and Hudson.)
Hueber, Paul J., Syracuse, N. Y. Concrete building form. No. 1,421,236; June 27.
Hug, Christian J., Highland, Ill. Subgrading machine. No. 1,421,237; June 27.
Hughes, William K., et al. (See Kelley, Benjamin F., assignor.)
Hulsmann, Anton, San Francisco, Calif. Amusement device. No. 1,421,238; June 27.
Hundleby, Frederick J., Droylsden, and H. M. Lawson, Manchester, England. Splash guard for the wheels of motor vehicles. No. 1,421,239; June 27.
Hunt, Fred N., et al. (See Hart, Albert J., assignor.)
Hunter, Richard B., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electrical controller. No. 1,420,842; June 27.
Hupp, Irvin, Chicago, Ill., assignor to Flexo Motive Corporation. Differential mechanism. No. 1,420,706; June 27.
Hutchins, Paul W. (See Yale, R. H., Hutchins, and Merting.)
Ikeda, Juichi, and M. Miura, Kobe, Japan. Two-fold envelope or double envelope. No. 1,421,240; June 27.
Industrial Controller Company. (See Van Valkenburg, Hermon L., assignor.)
Ingersoll Milling Machine Company, The. (See Rose, Howard C., assignor.)
Ingersoll-Rand Company. (See Ditson, Jesse, assignor.)
Ingersoll-Rand Company. (See Redfield, Snowden B., assignor.)
Ingham, Samuel, Pawtucket, R. I. Let-off motion for looms. No. 1,421,241; June 27.
Inghram, Howard T., Kansas City, Mo., assignor to H. T. Inghram, G. Zimmerman, and P. G. Owens, joint trustees for U-Want-A Products Company. Holding implement. No. 1,420,925; June 27.
Inman, Edward R., Franklin, Pa. Exhibition turntable. No. 1,421,008; June 27.
Inman, Edward R., Franklin, Pa. Turntable. No. 1,421,009; June 27.
Inman, Edward R. (See Clarke, F. F., and Inman.)
Inman Manufacturing Company. (See Joslin, Frank M., assignor.)
Innis, Ezra E. (See Hohmann, P. H., and Innis.)
Ireland, Harold W. F. (See Lucas, H. and O., and Ireland.)
Israelson, Peder, Hillman, Minn. Potato cutter. No. 1,420,843; June 27.
Jacobs Manufacturing Company, The. (See Stoner, Louis E., assignor.)
James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,421,242; June 27.
James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,421,243; June 27.
James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,421,244; June 27.
Jenckes Spinning Company. (See Hall, Frederick C., assignor.)
Jeschke, Richard, Charlottenburg, assignor to Phenoleum G. m. b. H., Berlin, Germany. Flooring material and making same. No. 1,421,086; June 27.
Johnson, Aron, Woodhaven, N. Y. Plunger drum. No. 1,420,844; June 27.
Johnson, Charles M., Avalon, Pa. Alloy steel. No. 1,420,707; June 27.
Johnson, Charles M., Avalon, Pa. Alloy steel. No. 1,420,708; June 27.
Johnson, Herbert S., Nuneaton, England. Internal-combustion turbine. No. 1,421,087; June 27.
Johnson, Lorenzo, Ririe, Idaho. Gate opening and closing mechanism. No. 1,421,088; June 27.
Johnson, Marshall A., Dayton, Wash. Locking device. No. 1,420,926; June 27.
Johnson, Stonewall, Sullivan, Ill. Rim tool. No. 1,420,927; June 27.
Johnson, William J., Creston, Iowa. Sieve. No. 1,421,245; June 87.
Johnston, George W., St. Joseph, Mo. Apparatus for compressing air. No. 1,420,845; June 27.
Jones, Thomas D., and J. H. Barr, deceased, Kansas City, Mo., M. Barr, executrix. Picture-display attachment for phonographs. No. 1,420,928; June 27.
Jordan, Richard D. (See Hall, J. H., and Jordan.)
Jordan, Walter L. (See Elsenbast, A. S., and Jordan.)
Joslin, Frank M., assignor to Inman Manufacturing Company, Inc., Amsterdam, N. Y. Sheet-steel cutter. No. 1,420,929; June 27.
Jullin, Alexis J., St.-Cloud, France. Apparatus for regulating the voltage of dynamo-electric machines. No. 1,421,246; June 27.
K-W Ignition Company, The. (Karkau, Albert G., assignor.)
Kaestner, Adolph. (See Held, Siegfried, assignor.)
Kanter, H. L. (See Lash, Robert L., assignor.)
Karkau, Albert G., assignor to The K-W Ignition Company, Cleveland, Ohio. Connection for electric conductors. No. 1,420,846; June 27.
Kawasaki, Utakichi, San Francisco, Calif. Coin-delivering device. No. 1,420,631; June 27.
Keenan, Walter F., Jr., assignor to Power Specialty Company, New York, N. Y. Air heater for furnaces. No. 1,421,247; June 27.
Kelley, Benjamin F., Tulsa, Okla., assignor of one-fourth to W. K. Hughes, St. Louis, Mo., and one-fourth to D. D. Myers, Tulsa, Okla. Combined swab and valve for wells. No. 1,421,248; June 27.
Kelly, James P., New York, N. Y. Cord tip. No. 1,420,632; June 27.
Kelly, James P., New York, N. Y. Cord tip. No. 1,420,657; June 27.
Kelsea, Clarence H., Belmont, assignor to Peter Gray & Sons Inc., Cambridge, Mass. Method and apparatus for protecting signal apparatus from false colored signals. No. 1,421,249; June 27.
Kemp, William W., and W. H. Van Horn, Baltimore, Md. Automatic air and gas mixing machine. No. 1,420,658; June 27.
Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Conduit plow. No. 1,421,250; June 27.
Kenefic, Edward B. (See Blanchard, T. R., and Kenefic.)
Kennedy, James W., assignor of one-fourth to G. S. Haggart and one-fourth to H. C. Conrad, Canton, Ohio. Signaling apparatus. No. 1,421,251; June 27.
Kennedy, James W., assignor of one-fourth to G. S. Haggart and one-fourth to H. C. Conrad, Canton, Ohio. Railway signaling apparatus. No. 1,421,252; June 27.
Kennedy, John E., Glens Falls, N. Y. Audible speedometer. No. 1,420,633; June 27.
Kibele, Otto B., Los Angeles, Calif. Removable deep-well pump. No. 1,421,253; June 27.
Kilgore, A. Dewey, Akron, Ohio. Tire-ply turn-up and prodder device. No. 1,420,930; June 27.
Killefer Manufacturing Company. (See Watters, Daniel M., assignor.)
Killinger, George W., Joliet, Ill. Burial vault. No. 1,420,709; June 27.
Kindervater, Julius, New York, N. Y. Driving-box wedge. No. 1,421,010; June 27.
King, Hosea B., near Desmet, Idaho. Engine. No. 1,421,254; June 27.
King, Ulysses G. (See Lea, Edward S., assignor.)
Kinney, William A., Philadelphia, Pa. Automobile heater. No. 1,421,255; June 27.
Klein, Joseph A., New York, N. Y. Medicinal compound. No. 1,420,634; June 27.
Kleinschmidt, Edward E., Brooklyn, N. Y. Keyboard tape perforator. No. 1,420,931; June 27.
Kline, Edwin E., et al. (See Hart, Albert J., assignor.)
Kline, Fred J. (See Grant, James W., assignor.)
Kling, Fred E., Youngstown, Ohio. Hot-blast stove. No. 1,421,256; June 27.
Klopper, August C., Asbury Park, N. J. Wrench. No. 1,420,635; June 27.
Knight, Wesley D., McDonough, Ga. Plow. No. 1,421,011; June 27.
Knudsen, Edward M., Superior, Wis. Milk-bottle carrier. No. 1,421,257; June 27.
Knutson, William K., Wichita Falls, Tex. Refrigerator. No. 1,420,711; June 27.
Kobel, R., et al. (See Buttram, William H., assignor.)
Koepsell, August J., Mayville, Wis. Bookcase. No. 1,421,012; June 27.
Kohler, Ernest, Denver, Colo., assignor to The United Mines and Manufacturing Company. Gyratory roundabout. No. 1,421,013; June 27.
Konicek, George J., Bruce Township, Benton County, Iowa. Automobile curtain support. No. 1,420,710; June 27.
Konigsberg, Joseph, assignor to L. Konigsberg, New York, N. Y. Diestock. No. 1,420,847; June 27.
Konigsberg, Lena. (See Konigsberg, Joseph, assignor.)
Kotun, Michael, New Geneva, Pa. Adjustable partition wall. No. 1,421,089; June 27.
Kretchmer, Mathias, Oriska, N. Dak. Tractor lug. No. 1,420,712; June 27.
Kuehner, Arthur T., Elkridge, Md. Driving-box lubricator. No. 1,421,258; June 27.
Kühn, Paul, Dortmund, Germany. Regenerator for smelting furnaces. No. 1,421,259; June 27.
Kurnick, Peter E., San Francisco, Calif. Couch armchair. No. 1,421,260; June 27.
Kyle, William D. (See West, Merle J., assignor.)
Lammers, Edwin S., Jr., Elyria, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,421,261; June 27.
Landon, Archer A., et al. (See Sproat, Harry J., assignor.)

Langeberg, Henry, Britton, S. Dak. Gate. No. 1,420,932; June 27.
Lapointe, Francis J., Ann Arbor, Mich. Attachment for broaching machines. No. 1,421,014; June 27.
Larkin, Joseph B., Palo Alto, Calif. Check holder. No. 1,421,262; June 27.
Larson, Gustav L., Lyngdal, near Farsund, Norway. Safety nut. No. 1,421,090; June 27.
Larson, John M., and J. F. Sievers, Downey, Idaho. Lens guard and dimmer. No. 1,420,848; June 27.
Lasevicius, Frank. (See Waitch, John, assignor.)
Lash, Robert L., assignor of two-fifths to H. L. Kanter, Norfolk, Va. Automatic valve for flush tanks. No. 1,420,713; June 27.
Latchem, George, Marked Tree, Ark. Door bell and burglar alarm. No. 1,421,094; June 27.
La Tour, Lee, and A. F. Munnell, assignors to Progress Roller Company, Omaha, Nebr. Apparatus for forming inking rollers. No. 1,420,849; June 27.
Latour, Marius C. A., Paris, France. Telephone. No. 1,421,015; June 27.
Lawson, Harold M. (See Hundleby, F. J., and Lawson.)
Lea, Edward S., assignor to U. G. King, Trenton, N. J. Tube-cutting machine. No. 1,421,263; June 27.
Lee, Don. (See Farum, Elecie P., assignor.)
Lee, Edward A., Haileybury, Ontario, Canada. Bottle cleaner. No. 1,420,714; June 27.
Leipold, Frank D., Clearfield, Pa. Amalgam mixer. No. 1,421,016; June 27.
Lennig, Edmund B., assignor to Thermic Engineering Co., San Francisco, Calif. Thermostat. No. 1,420,659; June 27.
Le Roy, Robert, Basin, Mont. Ore concentrator. No. 1,421,264; June 27.
Levinson, Joseph M., Los Angeles, Calif. Stapling device for shoes, etc. No. 1,421,265; June 27.
Lewis, Anson F., Santa Barbara, Calif. Automobile lock. No. 1,421,353; June 27.
Libby, McNeill & Libby. (See Wilcox, Robert B., assignor.)
Liebelt, Paul, New York, N. Y. Food chopper. No. 1,420,933; June 27.
Linde Air Products Company, The. (See Wucherer, R., and Pollitzer, assignors.)
Lindhorst, Frederick L., assignor to Detroit Torch & Manufacturing Company, Detroit, Mich. Burner. No. 1,420,850; June 27.
Lindhorst, Frederick L., assignor to Detroit Torch & Manufacturing Company, Detroit, Mich. Handle. No. 1,420,851; June 27.
Linnig, Charles E., Peru, Ill. Engraver's clamp. No. 1,420,715; June 27.
Linscheid, Edward H., Arlington, Kans. Straw spreader for harvester thrashers. No. 1,420,716; June 27.
Littell, Frederick J., assignor to F. J. Littell Machine Company, Chicago, Ill. Stock-handling mechanism. No. 1,421,354; June 27.
Littell, F. J., Machine Company. (See Littell, Frederick J., assignor.)
Locker, John B., St. Louis, Mo. Alarm. No. 1,421,267; June 27.
Lofstrom, Fredrik E., Elmira, N. Y. Ball and roller bearing. No. 1,420,852; June 27.
Loftin, Frederick T., Indianapolis, Ind. Consecutive-order impaling pin. No. 1,420,717; June 27.
Lombard, Levi W., Mattapan, Mass., assignor to Centrifugal Gun Corporation. Centrifugal gun. No. 1,420,660; June 27.
Loman, Allie L. (See Loman, F. A., and A. L., and Dean.)
Loman, Fray A., A. L., and H. C. Dean, Eldorado, Kans. Rod and pipe grab for wells. No. 1,421,266; June 27.
Long, Edward, Burke, Idaho. Lock. No. 1,420,853; June 27.
Losch, Cyrenius, Schuylkill Haven, Pa. Piston. No. 1,420,934; June 27.
Loustalot, Edward V., Franklin, La. Bed for use on automobiles. No. 1,421,268; June 27.
Lowell, Charles E., New York, N. Y., assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Steam trap. No. 1,420,718; June 27.
Lucas, Harry and O., and H. W. F. Ireland, Birmingham, England. Automatic electric switch. No. 1,420,935; June 27.
Lucas, Oliver. (See Lucas, Harry and O., and Ireland.)
Lucas, Samuel M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electromagnet. No. 1,421,269; June 27.
Luft, Sigmund, Maywood, Ill. Food product. No. 1,420,661; June 27.
Luhnow, Walter F., Oak Park, Ill. Sound amplifier. No. 1,420,719; June 27.
Lundberg, Gustave E., Kewanee, Ill. Battery connector. No. 1,421,017; June 27.
Lustron Company, The. (See Mork, H. S., and Coffin, Jr., assignors.)
Lyon, George A., Philadelphia, Pa. Buffer attacher. No. 1,420,854; June 27.
Lyon, George A., Philadelphia, Pa. Vehicle buffer device. No. 1,420,855; June 27.
Mabee, Charles R., Toledo, Ohio. Evaporation. No. 1,420,641; June 27.
Mabee, Charles R., Cleveland, Ohio. Centrifugal separator and evaporator. No. 1,420,642; June 27.
Mabee, Charles R., Toledo, Ohio. Evaporating apparatus. No. 1,420,645; June 27.
Mabee, Charles R., Toledo, Ohio. Apparatus for treating substances. No. 1,420,647; June 27.
Mabee, Charles R., Toledo, Ohio. Devices for the evaporation of liquids and in the drying of substances. No. 1,420,649; June 27.
Mabee, Charles R., Toledo, Ohio. Centrifugal drier. No. 1,420,650; June 27.
Mabee, Charles R., Cleveland, Ohio. Treating liquid substances to change the condition thereof by evaporation. No. 1,420,643; June 27.
Mabee, Charles R., Toledo, Ohio. Treating liquid substances. No. 1,420,644; June 27.
Mabee, Charles R., Toledo, Ohio. Treating liquid substances. No. 1,420,646; June 27.
Mabee, Charles R., Toledo, Ohio. Multiple-effect apparatus. No. 1,420,648; June 27.
MacGahan, Paul, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Relay. No. 1,421,272; June 27.
Maclagan, John C. M., Glasgow, Scotland. Scavenging device for combustion engines. No. 1,421,273; June 27.
MacLachlan, John C., assignor to Standard Food Products Company, St. Paul, Minn. Rotary spraying head. No. 1,420,722; June 27.
Macy, Barnett W., Jacksonville, Fla., assignor, by mesne assignments, to Electric Heating Corporation. Electrically-heated garment presser. No. 1,420,636; June 27.
Madden, James P., and L. Fisher, assignors to Bethlehem Steel Company, Bethlehem, Pa. Filling high-explosive containers. No. 1,420,637; June 27.
Maeder, Horst. (See Wolfes, O., and Maeder.)
Mag, Charles. (See Gutekunst, G., and Mag.)
Magnetic Drink Mixer Company. (See Stainbrook, Forest A., assignor.)
Magnetic Pigment Company. (See Fireman, Peter, assignor.)
Magnet-Werk G. m. b. H. Eisenach Spezialfabrik fur Elektromagnet-Apparate. (See Philipp, Richard, assignor.)
Malerstein, Harry J., Los Angeles, Calif. Mattress. No. 1,421,274; June 27.
Manifold Impressions Corporation. (See Sinclair, William H., assignor.)
Manter, Edwin E., Auburndale, Mass. Camera. No. 1,421,092; June 27.
Markus, Joso, and L. Thomas, East Pittsburgh, Pa. Permutation lock. No. 1,420,723; June 27.
Marona, Charles, and B. Villiott, Youngstown, Ohio. Hook. No. 1,420,724; June 27.
Masac, Howard A., Los Angeles, Calif. Time gauge for photographic developing, etc. No. 1,421,275; June 27.
Mascarenhas, Enéas G., Juiz de Fora, Brazil. Electric lamp. No. 1,421,276; June 27.
Mathews, Thomas, deceased, by A. Mathews, Leicester, and H. Buckingham, London, England, administrators. Advertising and display device. No. 1,421,277; June 27.
Matheson, John N., et al. (See Galopin, Henri, assignor.)
Mathews, Annie, et al., administrators. (See Mathews, Thomas.)
Matson, Leslie C., Dunbarton, Wis. Flash light. No. 1,421,093; June 27.
Matthews, Alfred C., Melbourne, Victoria, Australia. Concrete and like building block or slab. No. 1,421,278; June 27.
Mattson, Julius, Chicago, Ill. Clamping device. No. 1,420,725; June 27.
Mauclaire, Louis, assignor to himself, A. Carbarini, and G. Gautier, Paris, France. Cinematography in natural colors. No. 1,421,279; June 27.
Maxwell, James D., Brooklyn, N. Y. Valve. No. 1,420,662; June 27.
Maxwell, James D., Brooklyn, N. Y. Valve construction. No. 1,420,663; June 27.
Maxwell, James D., Brooklyn, N. Y. Nonreturn valve. No. 1,420,664; June 27.
Mayrow, James J., London, England. Construction of aircraft wings and aerofoils. No. 1,421,280; June 27.
Mayo, J. M., et al. (See Buttram, William H., assignor.)
Mayo, W. D., et al. (See Buttram, William H., assignor.)
McGlauflin, George W., Sioux City, Iowa. Dumping apparatus. No. 1,420,856; June 27.
McKee, Willis, assignor to The Elyria Iron & Steel Company, Cleveland, Ohio. Welding apparatus. No. 1,420,720; June 27.
McKoy, Edwin A., and G. D. Moore, New Orleans, La. Harvesting stumps. (Reissue.) No. 15,394; June 27.
McMullen, Joseph I., Washington, D. C. Tractor. No. 1,421,270; June 27.
McNeil, Claude P., New York, N. Y. Coated granules. No. 1,421,271; June 27.
McNiff, Gilbert P., assignor to National Tube Company, Pittsburgh, Pa. Cylinder and making same. No. 1,420,721; June 27.
Meacham, Benjamin E., Lorain, Ohio, assignor to American Stove Company, St. Louis, Mo. Oven-heat regulator. No. 1,421,281; June 27.
Meakin, Edgar T., Berkeley, Calif. Continuous press. No. 1,421,282; June 27.
Meakin, Edgar T., Berkeley, Calif. Apparatus for producing fish meal. No. 1,421,283; June 27.
Meikle, George S., New York, assignor to S. Sternau & Company, Inc., Brooklyn, N. Y. Stand for alcohol burners. No. 1,421,284; June 27.
Merting, Karl. (See Yale, R. H., Hutchins, and Merting.)

Mesker, Bernard T., assignor to Mesker Brothers Iron Company, St. Louis, Mo. Metal casket. No. 1,421,018; June 27.
Mesker Brothers Iron Company. (See Mesker, Bernard T., assignor.)
Mesker Brothers Iron Company. (See Mesker, F., and Beuc, assignors.)
Mesker, Frank, and J. Beuc, assignors to Mesker Brothers Iron Company, St. Louis, Mo. Metal window construction. No. 1,421,019; June 27.
Metal Recording Disc Company. (See Wadsworth, Henry L., assignor.)
Metal Saw and Machine Co. (See Stowell, Byron F., assignor.)
Meyer, Christian F., Reading, assignor to Textile Machine Works, Wyomissing, Pa. Needle bar for full-fashioned machines. No. 1,420,857; June 27.
Meyer, Friedrich W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controlling and regulating apparatus and system. No. 1,420,858; June 27.
Militor Corporation, The. (See Notman, Robert L., assignor.)
Mikolasek, Venceslaus F., Lankin, N. Dak. Lighting and ignition system for automobiles. No. 1,421,285; June 27.
Miller, Henry. (See Smith, R. S., and Miller.)
Miller, Hiram C., Parkesburg, Pa. Locking device for steering wheels. No. 1,421,020; June 27.
Miller, Otto, Lake Township, Berrien County, Mich. Lever lock. No. 1,421,021; June 27.
Miller, Robert H., Scranton, assignor to G. W. Shoemaker, Dalton, Pa. Washboard. No. 1,421,094; June 27.
Mills, Herbert S. (See Peterson, Oscar, assignor.)
Milton, John L., Cleveland, Ohio, assignor to Motor Ignition & Devices Company. Magneto ignition system for internal-combustion engines. No. 1,421,286; June 27.
Minnier, Blythe J. (See Bickel, H. F., and Minnier.)
Mitchell, William R. (See Smith, Oscar A., assignor.)
Miura, Masashi. (See Ikeda, J., and Miura.)
Mollet, Nicholas, Massilon, Ohio. Advertising sign. No. 1,421,022; June 27.
Montague, John W., Trenton, and V. G. Patrick, Postelle, assignors to Universal Seed Loading Company, Helena,, Ark. Grain conveyer. No. 1,420,726; June 27.
Moon, Alfred E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for making endless belts or rings. No. 1,420,727; June 27.
Moon Motor Car Company. (See Friede, Julian S., assignor.)
Moore, George D. (See McKoy, E. A., and Moore.) (Reissue.)
Moore, Granville. (See Buck, Homer A., assignor.)
Moore, Mary, Wilber, Nebr. Undergarment. No. 1,420,728; June 27.
Moore, Richard A., Brookings, Oreg. Combination tool. No. 1,421,287; June 27.
Moran, Frank J., New Britain, and W. A. Peck, New Haven, assignors to The Simpson-Peck Mfg. Co., New Haven, Conn. Pliers. No. 1,420,729; June 27.
Morgan and Wright. (See Abbott, Adrian O., Jr., assignor.)
Morgan Engineering Company, The. (See Morgan, William H., assignor.)
Morgan Engineering Company, The. (See Taylor, Clarence L., assignor.)
Morgan, William H., assignor to The Morgan Engineering Company, Alliance, Ohio. Plant for the manufacture of machinery and other apparatus. No. 1,420,730; June 27.
Mork, Harry S., Brookline, and C. F. Coffin, Jr., Watertown, assignors to The Lustron Company, South Boston, Mass. Preparing cellulose-ester products. No. 1,421,288; June 27.
Mork, Harry S., Brookline, and C. F. Coffin, Jr., Watertown, assignors to The Lustron Company, South Boston, Mass. Preparing cellulose-ester products. No. 1,421,289; June 27.
Mork, Harry S., Brookline, and C. F. Coffin, Jr., Watertown, assignors to The Lustron Company, South Boston Mass. Preparing cellulose-ester products. No. 1,421,290; June 27.
Morter, Earl W., Washington Court House, Ohio. Receptacle-transferring device. No. 1,420,936; June 27.
Motor Ignition & Devices Company. (See Milton, John L., assignor.)
Mueller, William A., et al. (See Henrie, George M., assignor.)
Mull, Edward A., Wauseon, Ohio. Metal-bending tool. No. 1,420,731; June 27.
Mumaw, Carl F., Scranton, Pa. Window cleaner. No. 1,420,937; June 27.
Mundale, Oscar M., Frost, Minn. Fuel-mixing device for internal-combustion engines. No. 1,420,732; June 27.
Mundy, John C., Philadelphia, and H. T. Wilson, Tullytown, Pa. Excavating apparatus and drag bucket. No. 1,420,733; June 27.
Munnell, Alton F. (See La Tour, L., and Munnell.)
Murphy, Charles L., Cincinnati, Ohio. Closure for containers. No. 1,420,734; June 27.
Murray, Joseph B. (See Murray, Thomas E., Jr., and J. B.)
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Welding machine. No. 1,420,735; June 27.
Myatt, William J., assignor to W. J. Myatt & Company Limited, Birmingham, England. Refillable pencil holder. No. 1,420,938; June 27.
Myatt, W. J., & Company Limited. (See Myatt, William J., assignor.)
Myers, D. D., et al. (See Kelley, Benjamin F., assignor.)
Myers, Hubert A., Company, The. (See Straw, Artemus D., assignor.)
Nande Corporation. (See Everett, Edward A., assignor.)
National Seal Company. (See Smith, Arthur D., assignor.)
National Tube Company. (See McNiff, Gilbert P., assignor.)
Neuenschwander, Lewis, assignor to Electric Fruit Marking Machine Co., Los Angeles, Calif. Electric fruit-marking machine. No. 1,421,292; June 27.
Nelson, Philip M., Seattle, Wash. Shoe-lacing device. No. 1,421,291; June 27.
Newcombe, John W., Detroit, Mich. Centrifugal dust separator. No. 1,420,665; June 27.
Nissrod, John W., Jacksonville, Fla. Stump puller. No. 1,420,736; June 27.
Norwalk Tire and Rubber Company, The. (See Converse, Francis B., assignor.)
Norzi, Ercole, Turin, assignor to Società Anonima "Aclastite," Vercelli, Italy. Manufacture of articles of horny material. No. 1,421,095; June 27.
Notman, Robert L., Springfield, Mass., assignor to The Militor Corporation, New York, N. Y. Motor-cycle frame. No. 1,420,638; June 27.
Nuerwell, Fred W. (See Stephenson, J. G., and Nuerwell.)
Nutter, Karl I., Martinsville, Ind. Demountable wheel rim. No. 1,421,096; June 27.
Olson, Anton C., Mandan, N. Dak. Locomotive curtain. No. 1,421,293; June 27.
Olsson, Anders H. (See Olsson, Karl, and A. H.)
Olsson, Karl and A. H., assignors to Aktiebolaget Lidköpings Mekaniska Verkstad, Lidköping, Sweden. Change-speed wheel gear for lathes. No. 1,420,939; June 27.
Ono, Einosuke, Hiraka-Gun, Akita-Ken, Japan. Producing combined dies and counterdies for swaging seamless gold crowns. No. 1,420,940; June 27.
Orenstein, Samuel, Newark, N. J. Wardrobe trunk. No. 1,421,294; June 27.
Osborne, Frank M., Anaconda, Mont. Piston ring. No. 1,421,295; June 27.
Owen, Charles F., assignor to Rundle-Spence Manufacturing Co., Milwaukee, Wis. Drinking fountain. No. 1,421,296; June 27.
Owen, Evan J., assignor to Etowah Foundry and Machine Company, Gadsden, Ala. Sanitary closet. No. 1,421,297; June 27.
Owens, P. G., et al., trustees. (See Inghram, Howard T., assignor.)
Paetta, Santin P., New York, N. Y. Trap. No. 1,421,298; June 27.
Palen, Frank A., New York, N. Y. Building construction. No. 1,421,299; June 27.
Palmer, Albert E., & Sons. (See Palmer, Harry B., assignor.)
Palmer, Harry B., assignor to Albert E. Palmer & Sons, Owosso, Mich. Clamp machine. No. 1,420,941; June 27.
Palmgren, Nils A., Gottenborg, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken. Nut lock. No. 1,420,737; June 27.
Paper De-Inking Co., The. (See Eyrich, H. R., and Schreiber, assignors.)
Parker, Charles Company, The. (See Walker, Percy H. D., assignor.)
Parker, George, and C. J. Daraban, Chicago, Ill. Dispenser. No. 1,421,300; June 27.
Patent-Treuhand-Gesellschaft fur elektrische Gluhlampen m. b. H. (See Frank, Ernst, assignor.)
Patrick, Van G. (See Montague, J. W., and Patrick.)
Pattberg, George A., San Leandro, Calif. Can opener. No. 1,420,666; June 27.
Patterson, M. F., Dental Supply Company. (See Rogers, Clarence B., assignor.)
Paupa, Joseph, Chicago, Ill. Tree protector. No. 1,420,738; June 27.
Peck, William A. (See Moran, F. J., and Peck.)
Peerblow Manufacturing Company. (See Schmitt, Francis P., assignor.)
Pelnar, Joseph, Sr., Deerfield, Kans. Bolster stake. No. 1,420,691; June 27.
Pente, William, Chicago, Ill. Envelope and frame for pictures and the like. No. 1,421,097; June 27.
Petersen, Asmus, St. Louis, Mo. Trolley-pole adjuster. No. 1,420,859; June 27.
Petersen, Christian P. (See Atherton, F. K., and Webb, assignors.)
Petersen, Paul W., Chicago, Ill. Preserving comestibles. No. 1,420,739; June 27.
Petersen, Paul W., Chicago, Ill. Preserving comestibles. No. 1,420,740; June 27.
Peterson, Oscar, assignor to H. S. Mills, Chicago, Ill. Player roll. No. 1,420,860; June 27.
Petrow, Alex., San Francisco, Calif. Picture frame. No. 1,421,301; June 27.
Petters Limited. (See Brooks, Herbert, assignor.)
Peyton, Ashley E., Denison, Tex. Clear-vision bank fixture. No. 1,420,942; June 27.
Peyton, Harry, Detroit, Mich. Vehicle lamp. No. 1,420,741; June 27.
Phenoleum G. m. b. H. (See Jeschke, Richard, assignor.)

Philp, Joseph H., Los Angeles, Calif. Rotary razor. No. 1,420,943; June 27.
Philipp, Richard, assignor to Firm Magnet-Werk G. m. b. H. Eisenach Spezialfabrik fur Elektromagnet-Apparate, Eisenach, Saxe-Weimar, Germany. Machine for reducing turning chips and the like. No. 1,420,742; June 27.
Phillips, Francis H., Old Westbury, N. Y. Burglar alarm. No. 1,420,743; June 27.
Phillips, Mills S., Tacoma, Wash. Car-enumerating device. No. 1,421,023; June 27.
Phillips, Raymond H., assignor to Essex Rubber Company, Trenton, N. J. Handle grip. No. 1,421,098; June 27.
Photostat Corporation. (See Greene, John S., assignor.)
Pierce, Robert C., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Driving and stopping mechanism. No. 1,420,744; June 27.
Pifer, John H., Larimore, N. Dak. Drive for steerable tractor wheels. No. 1,421,024; June 27.
Pittinger, Harry C., Oakland, Calif. Scrubbing device. No. 1,421,302; June 27.
Plamondon, Arthur L., Boston, Mass. Thread-pull-off device for buttonhole machines. No. 1,420,745; June 27.
Poe, Charles E. (See Standley, M. G., and Poe.)
Pollitzer, Franz. (See Wucherer, R., and Pollitzer.)
Poore, Philip, London, England. Apparatus for treating substances in a finely divided condition. No. 1,420,944; June 27.
Porter, Robert, and J. G. Ries, Chicago, Ill. Bottle cap and sifter. No. 1,420,861; June 27.
Powell, Everton B., Newark, N. J., assignor of one-half to F. N. Windridge, Cherrydale, Va. Hair-cutting machine. No. 1,421,350; June 27.
Power Specialty Company. (See Keenan, Walter F., Jr., assignor.)
Powow Manufacturing Company. (See Wells, George W., assignor.)
Prange, Maurice N., Detroit, Mich. Portable sanding, abrading, and polishing machine. No. 1,421,303; June 27.
Prater, William T., Bloomfield, Mo. Stirrup. No. 1,421,304; June 27.
Pratt, Richard W., St. Louis, Mo. Driving device for automobiles, railway motor cars, and locomotives. No. 1,421,025; June 27.
Prince, Clarence K., Westfield, Mass. Independent zone plan for continuous foundry operations. No. 1,421,305; June 27.
Proctor & Schwartz, Incorporated. (See Bogaty, Hermann, assignor.)
Production Machine Company. (See Fuller, Rufus W., assignor.)
Progress Roller Company. (See La Tour, L., and Munnell, assignors.)
Pugniet, Paul, Paris, France. Suspender clip. No. 1,420,746; June 27.
Putnam, Alden L., Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del. Vehicle wheel. No. 1,420,862; June 27.
Pyrocolor Corporation. (See Warga, Kalman, assignor.)
Quinn, Evan V., and D. Gallup, Olean, N. Y. Retort-bottom-bending device. No. 1,420,747; June 27.
Rader, August C., Reading, Mass. Toy building block. No. 1,420,748; June 27.
Randle, Wilbert L., Flint Stone, Md. Antiskid means for automobile wheels. No. 1,420,667; June 27.
Rapp, Samuel, London, Ohio. Railway tie. No. 1,420,749; June 27.
Rathbun, Whitman C., New Rockford, N. Dak. Push-button trip lever for low closet tanks. No. 1,420,948; June 27.
Rawlplug Company Limited, The. (See Rawlings, John J., assignor.)
Rawlings, John J., assignor of one-half to The Rawlplug Company Limited, South Kensington, London, England. Manufacture of tubular wall plugs from string or like material. No. 1,421,306; June 27.
Raybestos Company. (See Stanley, Frederick C., assignor.)
Raymond, Reuben, Napa, Calif. Baseball glove. No. 1,421,308; June 27.
Raynaud, Fernand R. G., assignor to Societe Anonyme des Etablissements Raynaud & Bourceret, Paris, France. Arrangement for instantaneous repairs of suspension springs of vehicles. No. 1,421,307; June 27.
Reg, Peter E. (See Swenings'on, Lawrence G., assignor.)
Redfield, Snowden B., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Compressor unloader. No. 1,421,309; June 27.
Reed, Sadie A., Long Beach, Calif. Spool and needle case. No. 1,421,099; June 27.
Regan, Albert L., assignor to The Hooven & Allison Company, Xenia, Ohio. Towrope. No. 1,421,026; June 27.
Reimer, Arthur E., executor. (See Callan, Frank J.)
Renaud, Aristide F., New Orleans, La., assignor to The Renaud Company, Cincinnati, Ohio. Rivet-feeding mechan'sm. No. 1,421,310; June 27.
Renaud Company, The. (See Renaud, Aristide F., assignor.)
Rente, Henry J., et al. (See Sproat, Harry J., assignor.)
Research Corporation. (See Davis, Harvey N., assignor.)
Reynolds, Richard S., Louisville, Ky. Wrapper. No. 1,421,027; June 27.
Rice & Adams Corporation. (See Adams, Charles S., assignor.)
Rice & Adams Corporation. (See Alling, E. R., and Wolf, assignors.)
Richmond, Robert E., assignor to J. and W. A. Elliott Company, Minneapolis, Minn. Floor-forming form. No. 1,420,863; June 27.
Ricketts, James R., Kansas City, Mo. Lapping machine. No. 1,420,751; June 27.
Riblet, Royal N., Spokane, Wash. Traffic indicator. No. 1,420,750; June 27.
Ries, John G. (See Porter, R., and Ries.)
Rimmington, Walter J., Winnipeg, Manitoba, Canada. Mattress. No. 1,421,028; June 27.
Roach, Patrick J., and D. Carter, Toronto, Ontario, Canada. Liquid meter. No. 1,420,752; June 27.
Robertson, H. H., Co. (See Young, James H., assignor.)
Robson, Thomas, Windber, Pa. Stretcher. No. 1,420,945; June 27.
Rockwell, E. A., Company. (See Rockwell, Edward A., assignor.)
Rockwell, Edward A., Flushing, assignor to E. A. Rockwell Company, Inc., New York, N. Y. Vacuum liquid-supply system. No. 1,420,753; June 27.
Rodman Chemical Company. (See Rodman, Hugh, assignor.)
Rodman, Hugh, Edgewood, assignor to Rodman Chemical Company, Verona, Pa. Carbonaceous product and making same. No. 1,420,754; June 27.
Rodwell, Charles H., London Bridge, England. Golf club. No. 1,420,946; June 27.
Roe, Alliott V., Bursledon, England. Resilient tire. No. 1,421,029; June 27.
Rogers, Clarence B., Seattle, Wash., assignor to M. F. Patterson Dental Supply Company, St. Paul, Minn. Bunsen attachment for blowpipes. No. 1,420,947; June 27.
Rognlie, Severin J., Lewistown, Mont. Phonograph. No. 1,420,668; June 27.
Rope, Arthur E., Brooklyn, N. Y. Combination vanity case. No. 1,421,311; June 27.
Rosan, Clifford D., New Haven, Conn. Container and delivery mechanism. No. 1,421,312; June 27.
Rose, Howard C., Detroit, Mich., assignor to The Ingersoll Milling Machine Company, Rockford, Ill. Circular milling machine. No. 1,421,030; June 27.
Royal Typewriter Company. (See Hess, E. B., and Handley, assignors.)
Roy, Edward D., and E. W. Hudson, Greenville, S. C. Tight pulley for looms. No. 1,421,100; June 27.
Rundle-Spence Manufacturing Co. (See Owen, Charles F., assignor.)
Runnebaum, George, Westpoint, Tenn. Bed support. No. 1,420,755; June 27.
Rutstrum, Calvin, Minneapolis, Minn. Skate-sharpener clamp. No. 1,420,756; June 27.
Ryan, Joseph H., Pittsburgh, Pa. Bituminous mixing machine. No. 1,420,757; June 27.
S.-A. Kummler & Matter. (See Eichenberger, Ferdinand, assignor.)
Sampson, Leslie G., Brooklyn, N. Y., assignor to Franklin Railway Supply Company. Driving box. No. 1,421,101; June 27.
Sanitas Twin Tooth Brush Corp. (See Field, William S., assignor.)
Saunders, Albert F., assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y. Teapot. No. 1,420,758; June 27.
Save-A-Handle Products Co. (See Sturgis, Herbert M., assignor.)
Savino, Camillo, New York, N. Y. Motor. No. 1,420,864; June 27.
Sawdy, Leo G. (See Dewey, D. D., and Sawdy.)
Sawicki, Joseph G., Essexville, Mich. Submerged heater for tanks. No. 1,420,759; June 27.
Schärer, Arnold, New York, N. Y. Curling iron. No. 1,421,313; June 27.
Scheihing, George, Burlington, Iowa. Hay carrier. No. 1,421,102; June 27.
Schindler, John L., Mount Angel, Oreg. Tire-chain hook. No. 1,420,949; June 27.
Schmidt, Charles D., Jamaica, N. Y. Antiskid device for vehicle wheels. No. 1,421,103; June 27.
Schmitt, Francis P., assignor to Peerblow Manufacturing Company, Leetsdale, Pa. Burner for liquid hydrocarbon fuel. No. 1,421,031; June 27.
Schnuck, Carl F. (See Bowen, D. R., and Schnuck.)
Schoell, Reinhold, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock. No. 1,420,760; June 27.
Schön, Ludwig, Essen, assignor to Fried. Krupp Aktiengesellshaft Essen-on-the-Ruhr, Germany. Arrangement for exciting continuous current generators. No. 1,420,761; June 27.
Schreiber, John A. (See Eyrich, H. R., and Schreiber.)
Schroeder, Charles S., New Brighton, N. Y., assignor, by mesne assignments, to The Yale & Towne Manufacturing Company, Stamford, Conn. Motor truck. No. 1,420,762; June 27.
Schuette, Johann, Zeesen-Koenigs-Wusterhausen, near Berlin, Germany, assignor, by mesne assignments, to American Investigation Corporation, New York, N. Y. Pipe joint. No. 1,420,670; June 27.
Schuette, Johann, Zeesen-Koenigs-Wusterhausen, near Berlin, Germany, assignor, by mesne assignments, to American Investigation Corporation, New York, N. Y. Pipe joint. No. 1,420,671; June 27.

Schuette, Johann, Zeesen-Koenigs-Wusterhausen, near Berlin, Germany, assignor, by mesne assignments, to American Investigation Corporation, New York, N. Y. Airship. No. 1,420,763; June 27.

Schuette, Johann, Zeesen-Koenigs-Wusterhausen, near Berlin, Germany, assignor, by mesne assignments, to American Investigation Corporation, New York, N. Y. Airship. No. 1,420,865; June 27.

Schultz, Frank F., New York, N. Y. Protector for collar and cuff buttons. No. 1,421,314; June 27.

Schütte, Johann, Zeesen-Koenigs-Wusterhausen, near Berlin, Germany, assignor, by mesne assignments, to American Investigation Corporation, New York, N. Y. Device for riveting tube joints. No. 1,420,866; June 27.

Schütte, Johann, Zeesen-Koenigs-Wusterhausen, near Berlin, Germany, assignor, by mesne assignments, to American Investigation Corporation, New York, N. Y. Pipe joint. No. 1,420,669; June 27.

Schüttler, William, assignor to Universal Arch Company, Chicago, Ill. Locomotive arch brick. No. 1,420,764; June 27.

Scohy, John R., Okmulgee, Okla. Glass-cylinder cutter. No. 1,420,867; June 27.

Scohy, John R., Okmulgee, Okla. Sheet-glass-drawing apparatus and drawing glass. No. 1,420,868; June 27.

Scott, Frank O., assignor to Southworth Company, Mittineague, Mass. Paper machine. No. 1,420,869; June 27.

Scotti, Alfredo, Whittier, Calif. Wheel for tractors. No. 1,420,870; June 27.

Scotti, Alfredo, Whittier, Calif. Traction wheel. No. 1,420,871; June 27.

Security Trust & Savings Bank, executor. (See Clark, Edward W.) (Reissue.)

Seitz, George F., Philadelphia, Pa. Embossing and printing apparatus. No. 1,420,765; June 27.

Senn, Lloyd R. (See Furness, G. T., and Senn.)

Seyms, Robert W., San Francisco, Calif., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Sectional lip for dredge buckets. No. 1,421,346; June 27.

Shannon, John B. (See Shannon, Lincoln V., O. F., and J. B.)

Shannon, Lincoln V., O. F., and J. B., Chicago, Ill. Mop wringer. No. 1,420,872; June 27.

Shannon, Oscar F. (See Shannon, Lincoln V., O. F., and J. B.)

Sharpless, John F., Jr., assignor to The American Pulley Company, Philadelphia, Pa. Window pulley. No. 1,420,873; June 27.

Sheer, Henry M., Quincy, Ill. Heater for brooders. No. 1,421,315; June 27.

Shoemaker, George W. (See Miller, Robert H., assignor.)

Sidwell, Mahlon A., Los Angeles, Calif. Reversing machine. No. 1,421,104; June 27.

Sierad, Milton. (See Button, G. W., and Sierad.)

Sievers, John F. (See Larson, J. M., and Sievers.)

Sims, Jonas, Trenton, N. J. Toilet article. No. 1,420,766; June 27.

Simpson, Arthur M. (See Simpson, George N., A. M., and W. H.)

Simpson, George N., A. M., and W. H., Chicago, Ill. Drawbar. No. 1,421,032; June 27.

Simpson-Peck Mfg. Co. (See Moran, F. J., and Peck, assignors.)

Simpson, Walter H. (See Simpson, George N., A. M., and W. H.)

Sinclair, William H., Berkeley, Calif., assignor to Manifold Impression Corporation, Carson City, Nev. Ribbon attachment especially adapted for typewriters. No. 1,420,874; June 27.

Sinha, Ardhendu, B., Muzaffarpur, British India. Wagon seal. No. 1,421,033; June 27.

Slajbelle, Jack, Ludlow, Vt. Lock. No. 1,421,316; June 27.

Slough, Frank M., assignor to The Elyria Enameled Products Company, Elyria, Ohio. Liquid-agitating mechanism. No. 1,420,767; June 27.

Smith, A. O., Corporation. (See Smith, R. S., and Miller, assignors.)

Smith, Arthur D., Portland, Me., assignor to National Seal Company, Inc., New York, N. Y. Art of and apparatus for producing closures for containing vessels. No. 1,420,875; June 27.

Smith, Arthur D., Portland, Me., assignor to National Seal Company, Inc., New York, N. Y. Closure for containing vessels. No. 1,420,768; June 27.

Smith, Edwin C., et al., executors. (See Wardell, Simon W.)

Smith, Harry F., assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Manifold. No. 1,421,034; June 27.

Smith, Hubert L., Avonmore, Pa. Automatic pump stop. No. 1,420,769; June 27.

Smith, James T. (See Anderson, C. L., and Smith.)

Smith, Oscar A., assignor of one-half to W. R. Mitchell, Cleveland, Ohio. Binding post. No. 1,420,770; June 27.

Smith, Oscar A., assignor of one-half to W. R. Mitchell, Cleveland, Ohio. Binding post. No. 1,420,771; June 27.

Smith, P. H. W., et al., executors. (See Davis, C. W., and Brown.)

Smith, Reuben S., and H. Miller, assignors to A. O. Smith Corporation, Milwaukee, Wis. Drawing and lapping press. No. 1,421,035; June 27.

Smith, Robert L., Los Angeles, Calif. Stock-car door. No. 1,421,105; June 27.

Snedeker, Charles O., Bloomington, Ill. Cushion tire. No. 1,421,106; June 27.

Snell, Lancelot H. (See Snell, Sheridan S. and L. H.)

Snell, Sheridan S. and L. H., Masontown, Pa. Duplex safety-clutch control. No. 1,421,317; June 27.

Snyder, Frank F., Torrance, Calif. Belt splice. No. 1,421,036; June 27.

Società Anonima "Aclastite." (See Norzi, Ercole, assignor.)

Societe Anonyme des Etablissements Raynaud & Bourceret. (See Raynaud, Fernand R. G., assignor.)

Sommer, John, Peoria, Ill. Ditching machine. No. 1,420,876; June 27.

Sommers, William, and L. Fritz, Philadelphia, Pa. Coffee mill. No. 1,420,877; June 27.

Southworth Company. (See Scott, Frank O., assignor.)

Skayef Ball Bearing Company, The. (See Waller, Algot E., assignor.)

Speck, Glen G., Portland, Oreg. Pin. No. 1,421,037; June 27.

Spery, Charles F., Chicago, Ill. Radiator for explosive engines. No. 1,420,878; June 27.

Spittler, Peter J., Trempealeau, Wis. Cover for cans. No. 1,420,772; June 27.

Sproar, Harry J., Lansing, Mich., assignor of one-fourth to A. A. Landon and one-fourth to H. J. Rente, Buffalo, N. Y. Voting apparatus. No. 1,420,879; June 27.

Spyroseal Manufacturing Company. (See Ford, John W., assignor.)

Stakutis, John, Chicago, Ill. Bird cage. No. 1,420,880; June 27.

Standard Underground Cable Company. (See Davis, C. W., and Brown, assignors.)

Standard Food Products Company. (See MacLachlan, John C., assignor.)

Standley, Meredith G., and C. E. Poe, Cincinnati, Ohio. Ribbon feeding and reversing mechanism. No. 1,420,881; June 27.

Stanley, Frederick C., assignor to Raybestos Company, Bridgeport, Conn. Making friction facings. No. 1,420,882; June 27.

Stanley, Frederick C., assignor to Raybestos Company, Bridgeport, Conn. Making clutch rings for motor cars. No. 1,420,883; June 27.

Stainbrook, Forest A., Boston, Mass., assignor to Magnetic Drink Mixer Company. Electrical drink mixer. No. 1,420,773; June 27.

Stainbrook, Forest A., Boston, Mass., assignor to Magnetic Drink Mixer Company. Electrical drink mixer. No. 1,420,774; June 27.

Stanwood Equipment Company. (See Stanwood, Frank H., assignor.)

Stanwood, Frank H., assignor to Stanwood Equipment Company, Chicago, Ill. Nonslipping tread. No. 1,420,775; June 27.

Stanwood, Frank H., assignor to Stanwood Equipment Company, Chicago, Ill. Step plate. No. 1,420,776; June 27.

Staples and Seefeld. (See Staples, George, assignor.)

Staples, George, Oshkosh, assignor to Staples and Seefeld, Milwaukee, Wis. Tire-chain holder. No. 1,420,777; June 27.

Staples, George, Oshkosh, assignor to Staples and Seefeld, Milwaukee, Wis. Attaching device for nonskid chains. No. 1,420,778; June 27.

Steffan, William C., F. B. Ackermann and W. J. Greiner, Chicago, Ill. Clip. No. 1,421,318; June 27.

Stephenson, John G., and F. W. Nuerwell, Tulsa, Okla. Vacuum vibrator. No. 1,420,884; June 27.

Stern, Albert D., Philadelphia, Pa. Oil-transfer device. No. 1,421,319; June 27.

Sternau, S., & Company. (See Meikle, George S., assignor.)

Stewart, Gertrude F. (See Williams, George L., assignor.)

Stewart, Henry W., El Paso, Tex. Sun and storm shade for automobiles. No. 1,420,779; June 27.

Stockley, James, Halifax, Nova Scotia, Canada. Concrete mixer. No. 1,421,320; June 27.

Stocker, James M., Atlanta, Ga. Sprayer. No. 1,421,038; June 27.

Stoekle, Erwin R., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Regulating means for alternating-current circuits. No. 1,420,885; June 27.

Stokes, Charles L., Los Angeles, Calif. Carburetor and fuel feed. No. 1,420,886; June 27.

Stoner, Louis E., assignor to The Jacobs Manufacturing Company, Hartford, Conn. Chuck. No. 1,420,780; June 27.

Stoverink, John W., et al. (See Henrie, George M., assignor.)

Stowell, Byron F., assignor to Metal Saw and Machine Co. Inc., Springfield, Mass. Operating device for cutting machines. No. 1,421,107; June 27.

Strauss, Joseph B., Chicago, Ill. Amusement device. No. 1,420,887; June 27.

Straw, Arteemes D., Wauseon, assignor, by mesne assignments, to The Hubert A. Myers Company, Toledo, Ohio. Coating molds. No. 1,420,888; June 27.

Strickland, Erve C. (See Thuesen, G. C., and Strickland.)

Strite, George T. (See Foote, J. B., and Strite.)
Strong, William J. H., Chicago, Ill. Heat motor. No. 1,420,672; June 27.
Stuard, James A. (See Dexter, Fred A. and B. P., and Stuard.)
Stultz, George H., Winterset, Iowa. Frame for automobile beds. No. 1,420,889; June 27.
Sturgis, Herbert M., assignor to Save-A-Handle Products Co., Kansas City, Mo. Mop head and fastener therefor. No. 1,420,639; June 27.
Supple, John R., Portland, Oreg. Rim breaker. No. 1,420,781; June 27.
Suski, Wawrzyniec, Flint, Mich. Combination trunk. No. 1,420,782; June 27.
Sutton, Eunice, and S. M. Ward, New York, N. Y. No. 1,420,890; June 27.
Swencki, Anton, Racine, Wis. Combined land and water vehicle. No. 1,420,783; June 27.
Sweningston, Lawrence G., assignor of one-half to P. E. Rea, Chicago, Ill. Safety appliance. No. 1,421,039; June 27.
Swenson, George E., Philadelphia, Pa., assignor to The Barrett Company. Roof. No. 1,421,040; June 27.
Szyslak, Blasius, Braddock, Pa. Stringed musical instrument. No. 1,420,784; June 27.
Talbot, Howard H. (See Woodard, L. A., and Talbot.)
Tant, Walter F., et al. (See Gore, William M., assignor.)
Taylor, Alfred. (See Taylor, Harold D., assignor.)
Taylor, Buel, Odenville, Ala. Sirup boiling and skimming apparatus. No. 1,421,108; June 27.
Taylor, Clarence L., assignor to The Morgan Engineering Company, Alliance, Ohio. Method of and apparatus for straightening rolled endless billets. No. 1,420,785; June 27.
Taylor, Harold D., assignor of one-half to A. Taylor, Bishopshill, York, England. Short-base range finder. No. 1,421,321; June 27.
Taylor-Wharton Iron and Steel Company. (See Hall, J. H., and Jordan, assignors.)
Taylor-Wharton Iron and Steel Company. (See Hanks, George R., assignor.)
Taylor-Wharton Iron and Steel Company. (See Seyms, Robert W., assignor.)
Textile Machine Works. (See Meyer, Christian F., assignor.)
Thatcher, George T., Auburn, N. Y. Machine for serrating knife blanks. No. 1,420,786; June 27.
Thermic Engineering Co. (See Lennig, Edmund B., assignor.)
Thiele, Alfred, Dresden, Germany. Working claw for hand or arm amputated persons. No. 1,421,322; June 27.
Thomas, Louis. (See Markus, J., and Thomas.)
Thomas, John M., Marion, Iowa. Hat and umbrella holder. No. 1,420,891; June 27.
Thomas, William M., Cincinnati, Ohio. Swing. No. 1,420,787; June 27.
Thomson, Byron C., New Orleans, La., assignor to Emerson-Brantingham Company, Rockford, Ill. Ridging plow. No. 1,421,109; June 27.
Thompson, Charles W., Quincy, assignor of one-half to E. J. Tucker, Malden, Mass. Fruit jar, etc. No. 1,420,892; June 27.
Thuesen, Godfred C., San Francisco, and E. C. Strickland, San Jose, Calif. Laundry truck. No. 1,421,110; June 27.
Till, Peter, New York, N. Y. Crochet-needle holder and magazine. No. 1,420,893; June 27.
Townsend, John S. E., Oxford, England. Variometer. No. 1,421,041; June 27.
Traphagen, Harry R., assignor to Emerson-Brantingham Company, Rockford, Ill. Colter. No. 1,421,111; June 27.
Tucker, Edwin J. (See Thompson, Charles W., assignor.)
Turner, Stanley S., et al. (See Clark, Edward W., assignor.) (Reissue.)
Turner, Violet E., et al. (See Clark, Edward W., assignor.) (Reissue.)
Twyman, Frank, assignor to Adam Hilger, Limited, London, England. Projection apparatus for gauging articles. No. 1,421,042; June 27.
Uline, Michiel J., Cleveland, assignor to The M. J. Uline Company, Toledo, Ohio. Method and apparatus for scoring ice. No. 1,420,788; June 27.
Uline, M. J., Company, The. (See Uline, Michiel J., assignor.)
Underwood Typewriter Company. (See Allard, J. Frank, assignor.)
Union Carbide & Carbon Research Laboratories. (See Erickson, Albert N., assignor.)
United Mines and Manufacturing Company, The. (See Kohler, Ernest, assignor.)
Union Switch & Signal Company, The. (See Lucas, Samuel M., assignor.)
Universal Arch Company. (See Schuttler, William, assignor.)
Universal Seed Loading Company. (See Montague, J. W., and Patrick, assignors.)
Usievich, Nighm I., San Francisco, Calif. Folding bed. No. 1,420,894; June 27.
Valeur, Einar J., Barahona, Dominican Republic, West Indies. Diving suit. No. 1,420,640; June 27.
Vanderveld, Anthony. (See Dickerson, G. H., and Vanderveld.)
Van Emon, Burton C., San Francisco, and W. A. Wolf, Alameda, Calif. Safety lock for elevator doors. No. 1,421,043; June 27.
Van Horn, William H. (See Kemp, W. W., and Van Horn.)
Van Valkenburg, Hermon L., assignor to Industrial Controller Company, Milwaukee, Wis. Motor-starting switch. No. 1,420,789; June 27.
Vapor Car Heating Company. (See Lowell, Charles E., assignor.)
Varney, Theodore, Sewickley, assignor to Aluminum Company of America, Pittsburgh, Pa. Clamp device for electric conductors. No. 1,420,790; June 27.
Vickers Limited. (See Dawson, A. T., and Buckham, assignors.)
Villiott, Bert. (See Marona, C., and Villiott.)
Vincent, Ernest P., New York, N. Y. Sign. No. 1,421,044; June 27.
Visscher, Charles R. H. (See Walker, W. B., and Visscher.)
Volf, Matt A., Pickens, W. Va. Tire. No. 1,421,323; June 27.
Wadsworth, Henry L., Lexington, Mass., assignor to Metal Recording Disc Company, Inc., New York, N. Y. Recording sound records. No. 1,421,045; June 27.
Wagner, Mangold, Seattle, Wash. Combined propelling and steering mechanism for velocipedes. No. 1,420,791; June 27.
Waitch, John, Pittsburgh, Pa., assignor of one-half to F. Lasevicius, Laporte, Ind. Lathe attachment. No. 1,421,324; June 27.
Waldroff, William H., Minneapolis, Minn. Tire tool. No. 1,420,792; June 27.
Walker, George R., assignor, by mesne assignments, to Walker Vehicle Company, Chicago, Ill. Driving mechanism. No. 1,420,793; June 27.
Walker, Herbert E., Chicago, Ill. Connector for storage batteries. No. 1,421,355; June 27.
Walker, Percy H. D., assignor to The Charles Parker Company, Meriden, Conn. Vise slide. No. 1,421,112; June 27.
Walker Vehicle Company. (See Walker, George R., assignor.)
Walker, William B., New York, and C. R. H. Visscher, Brooklyn, assignors to American Thermos Bottle Company, New York, N. Y. Vacuum vessel. No. 1,421,325; June 27.
Waller, Algot E., West Hartford, assignor to The Skayef Ball Bearing Company, Hartford, Conn. Flying chuck. No. 1,420,794; June 27.
Waller, Charles W., Chicago, Ill. Means for electrically propelling and communicating with aerial vehicles and marine vessels. No. 1,421,326; June 27.
Walsburger, John A., Louisville, Ky. Child's vehicle. No. 1,421,046; June 27.
Ward, Artemus. (See Giles, Harvey, assignor.)
Ward, Claton E., Oxnard, and F. W. Harris, Los Angeles, Calif., assignors to Brenneis Manufacturing Company, Tandem disk harrow. No. 1,421,048; June 27.
Ward, Claton E., Oxnard, Calif., assignor to Brenneis Manufacturing Company. Shifting mechanism for disk harrows. No. 1,421,047; June 27.
Ward, Frederick H., Brooklyn, N. Y. Wrench. No. 1,420,795; June 27.
Ward, Sena M. (See Sutton, E., and Ward.)
Wardwell, Simon W., deceased, Providence, R. I.; C. V. J. Christensen, E. C. Smith, A. A. Armington, and W. W. Bardsley, executors. Mechanical motion. No. 1,421,049; June 27.
Warga, Kálman, New York, N. Y., assignor to Pyrocolor Corporation. Producing color films. No. 1,420,673; June 27.
Warner Brothers Company, The. (See Hartnett, John F., assignor.)
Warner, George A., Detroit, Mich. Brickmaking. No. 1,420,796; June 27.
Warren Clock Company. (See Warren, Henry E., assignor.)
Warren, Henry E., Ashland, Mass., assignor to Warren Clock Company. Time-indicating apparatus. No. 1,420,895; June 27.
Warren, Henry E., Ashland, Mass., assignor to Warren Clock Company. Control system. No. 1,420,896; June 27.
Washington, William L., East Youngstown, Ohio. Emergency tank for automobiles. No. 1,421,050; June 27.
Waters, Thomas C., Shenandoah, Pa. Flowerpot or bouquet holder. No. 1,421,327; June 27.
Watson, Milton T., et al. (See Gore, William M., assignor.)
Watts, Isaac J., King City, Calif. Bench stop. No. 1,421,328; June 27.
Watters, Daniel M., assignor to Killefer Manufacturing Company, Los Angeles, Calif. Disk cultivator. No. 1,421,113; June 27.
Webb, Clarence F. (See Atherton, F. K., and Webb.)
Weckbaugh, Joseph V., New York, N. Y. Cup. No. 1,421,114; June 27.
Weiss, Harry A. (See Hartzell, W. N., and Weiss.)
Welch, Horace H., Chicago, Ill. Gem. No. 1,421,329; June 27.
Wells, George W., assignor to Powow Manufacturing Company, Amesbury, Mass. Window regulator. No. 1,421,330; June 27.

Westerman, Frederick, Chicago, Ill. Depositing machine. No. 1,420,797; June 27.
Western Electric Company. (See Fondiller, William, assignor.)
Weston, William S., Houston, Tex. Hydraulic transmission mechanism. No. 1,420,798; June 27.
West, Augustus A., assignor to West Electric Hair Curler Company, Philadelphia, Pa. Metal revolving cabinet. No. 1,421,331; June 27.
West Electric Hair Curler Company. (See West, Augustus A., assignor.)
West, Merle J., assignor to W. D. Kyle, Milwaukee, Wis. Indicator for renewable fuses. No. 1,421,051; June 27.
Westinghouse Electric & Manufacturing Company. (See Bouton, Edgar M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Brown, James M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Candee, Andrew H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Chubb, Lewis W., assignor.)
Westinghouse Electric & Manufacturing Company. (See De Camp, Ray E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hellmund, Rudolf E.)
Westinghouse Electric & Manufacturing Company. (See Henninger, Philip E., assignor.)
Westinghouse Electric & Manufacturing Company. (See James, Henry D., assignor.)
Westinghouse Electric and Manufacturing Company. (See Kempton, Willard H.)
Westinghouse Electric & Manufacturing Company. (See Lammers, Edwin S., Jr., assignor.)
Westinghouse Electric and Manufacturing Company. (See MacGahan, Paul, assignor.)
Wetzel, Carl G., Kokomo, Ind., assignor to C. E. Hodgen, Kokomo, Ind. Jewelry. No. 1,420,897; June 27.
Wharton, William, Jr., and Company. (See Angerer, Victor, assignor.)
White, Franklin E., Union, N. Y. Dado saw. No. 1,421,052; June 27.
White, Manley A., Beverly, Mass. Diving bell. No. 1,421,332; June 27.
Wilcox, Robert B., The Dalles, Oreg., assignor to Libby, McNeill & Libby, Chicago, Ill. Fruit pitter. No. 1,421,333; June 27.
Wilkinson, John F., Gardner, Mass. Manually-propelled vehicle. No. 1,420,799; June 27.
Willey, Martin T., Lead, S. Dak. Valve-stem attachment. No. 1,420,898; June 27.
Williams, Brown T., San Francisco, Calif. Toy gun. No. 1,421,334; June 27.
Williams, Frank C., Salt Lake City, Utah. Closure plug. No. 1,420,899; June 27.
Williams, George L., New York, N. Y., assignor to G. F. Stewart, Pasadena, Calif. Building construction. No. 1,421,335; June 27.
Williams, Guy R., San Francisco, Calif. Tire construction. No. 1,421,115; June 27.
Williams, Joseph S., Riverton, N. J. Resilient tire. No. 1,420,674; June 27.
Wilson, Harry T. (See Mundy, J. C., and Wilson.)
Wilson Process, Incorporated. (See Wilson, Sidney C., assignor.)
Wilson, Sidney C., assignor to Wilson Process, Incorporated, Rochester, N. Y. Making shoes. No. 1,421,347; June 27.
Winchester, Albert G., assignor to Crippen & Reid, Baltimore, Md. Middy blouse. No. 1,421,053; June 27.
Windridge, Frederick N. (See Powell, Everton B., assignor.)
Windsor Manufacturing Company, The. (See Cope, Carson C., assignor.)
Wise, Harry, Yakima, Wash. Automobile bed. No. 1,420,800; June 27.
Wolf, Frank F. (See Alling, R. E., and Wolf.)
Wolf, Wilfred A. (See Van Emon, B. C., and Wolf.)
Wolfes, Otto, and H. Maeder, Darmstadt, Germany. Tropinone-monocarboxylic-acid ester and preparing the same. No. 1,420,900; June 27.
Woodard, Louis A., and H. H. Talbot, Wooster, Ohio. Gear-cutting machine. No. 1,421,116; June 27.
Wood, Frank W., Montclair, N. J., assignor to Charles Cory & Son, Incorporated, New York, N. Y. Rotary annunciator. No. 1,420,801; June 27.
Woodbury, Charles H., Los Angeles, Calif. Quick-detachable tire-valve dust cap. No. 1,421,117; June 27.
Woodman, George A., assignor of one-half to C. A. Carscadin, Chicago, Ill. Uncoupling device for railway cars. No. 1,421,351; June 27.
Woods, Carl, Griggsville, Ill. Scoop board. No. 1,421,336; June 27.
Worman, John F. (See Askren, E. J., Worman, and Zwick.)
Wucherer, Rudolf, and F. Pollitzer, Munich, Germany, assignors, by mesne assignments, to The Linde Air Products Company, New York, N. Y. Recovering constituents of air or other gaseous mixtures. No. 1,420,802; June 27.
Wright, Leon B., Lyndonville, N. Y. Locking means for motor vehicles. No. 1,421,054; June 27.
Wright, William R., et al. (See Hart, Albert J., assignor.)
Yale and Hopwell Company. (See Yale, R. H., Hutchins, and Merting, assignors.)
Yale & Towne Manufacturing Company, The. (See Schoell, Reinhold, assignor.)
Yale & Towne Manufacturing Company, The. (See Schroeder, Charles S., assignor.)
Yale, Rodney H., P. W. Hutchins, and K. Merting, assignors to Yale and Hopwell Company, Lincoln, Nebr. Windmill. No. 1,421,337; June 27.
Young, James H., assignor to H. H. Robertson Co., Pittsburgh, Pa. Protected metal article. No. 1,421,338; June 27.
Youngquist, Henry W., Manchester, N. H., assignor to Draper Corporation, Hopedale, Mass. Automatic filling-replenishing loom. No. 1,420,901; June 27.
Zalowitz, Joseph, New York, N. Y. Gem setting. No. 1,421,339; June 27.
Zelazo, Stanley, Adams, Mass. Christmas-tree stand. No. 1,421,340; June 27.
Zimmerman, George, et al, trustees. (See Inghram, Howard T., assignor.)
Zsigmondy, Richard, Gottingen, and W. Bachmann, Hanover, Germany. Filter and producing same. No. 1,421,341; June 27.
Zwick, Charles F. (See Askren, E. J., Worman, and Zwick.)

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Beug, Glee, Sturgis, S. Dak. Doll. No. 61,130; June 27.
Burglar Alarm & Metalic Manufacturing Corporation. (See Dulczewski, Sigmund, assignor.)
Carmichael, John H., Roanoke, Va. Bottle. No. 61,131; June 27.
Dahl, Thure E., New York, N. Y. Chandelier. No. 61,132; June 27.
Dulczewski, Sigmund, assignor to Burglar Alarm & Metalic Manufacturing Corporation, Buffalo, N. Y. Desk lamp. No. 61,133; June 27.
Gianera, Lawrence, Los Angeles, Calif. Bead for ornamental neck chains. No. 61,134; June 27.
Golomb, Morris, New York, N. Y. Abdominal protector for boxers. No. 61,135; June 27.
Haley, Reuben, Beaver, Pa. Automobile headlight lens. No. 61,136; June 27.
Hooper, James P., Ruxton, Md. Padding. No. 61,137; June 27.
Jobin, Silvio, Montreal, Quebec, Canada. Statuette. No. 61,138; June 27.
Kaempfer, Joseph G., New York, N. Y. Statue doll. No. 61,139; June 27.
Lucas, James M., Philadelphia, Pa. Incense burner. No. 61,140; June 27.
Maerz, Frederick K., assignor to The Morreau Company, Cleveland, Ohio. Lighting fixture. No. 61,141; June 27.
Maerz, Frederick K., assignor to The Morreau Company, Cleveland, Ohio. Frame for lighting fixtures. No. 61,142; June 27.
Moriarty, John J., assignor to The Victor Rubber Company, Springfield, Ohio. Pneumatic-tire tread. No. 61,143; June 27.
Morreau Company, The. (See Maerz, Frederick K., assignor.)
Platt, Hiram, Como, Mont. Monument. No. 61,144; June 27.
Slater, Mabel H., New York, N. Y. Smoking doll. No. 61,145; June 27.
Victor Rubber Company, The. (See Moriarty, John J., assignor.)

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Alexander, Joe, Montgomery, W. Va. Adhesive for the application of soles to shoes. No. 156,498; June 27.
Alvarez, Inocencio, Habana, Cuba, assignor to Romeo y Julieta Cigar Factory. Cigars. No. 19,936; renewed July 28, 1922.
Alvarez, Inocencio, Habana, Cuba, assignor to Romeo y Julieta Cigar Factory. Cigars. No. 19,847; renewed July 28, 1921.
Alvarez, Inocencio, Habana, Cuba, assignor to Romeo y Julieta Cigar Company. Cigars. No. 19,585; renewed May 26, 1921.
American Braiding Company, Holyoke, Mass. Shoe and corset laces and braids. No. 156,499; June 27.
Arlington Collar and Cuff Co., Arlington, N. J., and New York, N. Y., assignors to E. I. du Pont de Nemours & Company. Waterproof collars and cuffs. No. 20,850; renewed Mar. 15, 1922.
Ashaway Line & Twine Manufacturing Company, Ashaway, R. I. Fishing lines. No. 156,500; June 27.
Atkins, E. C., & Company, Indianapolis, Ind. Hack-saw machines. No. 156,501; June 27.
Bastanchury Ranch Company, Fullerton, Calif. Fresh citrus fruits. No. 156,502; June 27.
Bias, Stanley C., Brooklyn, N. Y. Flavored edible lozenges. Nos. 156,566–7; June 27.
Blanton, David A., St. Louis, Mo. Shortening. No. 156,568; June 27.
Blondeau et Cie., New York, N. Y., assignors to Vinolia Company Limited. Cosmetics, salves, and ointments. No. 21,085; renewed May 10, 1922.
Bon Ami Co., The. (See Robertson, J. T., Soap Company, The, assignors.)
Bordeaux & New York Trading Co., New York, N. Y. Bar-le-duc jelly, mushrooms, peppers or pimientos, sardines. No. 156,503; June 27.
Butler, James, Grocery Company. (See Butler, James, assignor.)
Butler, James, New York, N. Y., assignor to James Butler Grocery Company. Flour. No. 21,344; renewed June 21, 1922.
Butler, James, New York, N. Y., assignor to James Butler Grocery Company. Oats, wheat, and buckwheat. No. 21,030; renewed Apr. 26, 1922.
Butler, James, New York, N. Y., assignor to James Butler Grocery Company. Tomato catsup. No. 21,258; renewed June 7, 1922.
Butler Paper Company, Chicago, Ill. Bristol board. No. 156,504; June 27.
Card-Martin Company, Jellico, Tenn. Nonalcoholic, noncereal, maltless beverages sold as soft drinks and sirups for making same. No. 156,505; June 27.
Chase & Company Corporation, Boston, Mass., assignor to New England Confectionery Company. Pipe candy. No. 20,034; renewed Aug. 18, 1922.
Chase & Company Corporation, Boston, Mass., assignor to New England Confectionery Company. Pipe candy. No. 20,144; renewed Sept. 15, 1921.
Chase & Company Corporation, Boston, Mass., assignor to New England Confectionery Company. Small sugared sticks of candy. No. 20,178; renewed Sept. 29, 1921.
Chason, Daniel H., Elizabeth, N. J. Window antirattlers. No. 156,506; June 27.
Cincinnati Beverage and Products Co., The, Cincinnati, Ohio. Fruit beverage sold as a soft drink and sirup therefor. No. 156,507; June 27.
Corn Products Refining Company. (See National Starch Manufacturing Company, The, assignor.)
Crane Packing Company, Chicago, Ill. Metallic packing. No. 156,508; June 27.
Crescent Belt Fastener Company, New York, N. Y. Fasteners, plates, clamps, and rivets for machinery belting. No. 156,509; June 27.
Curtis Corporation, The, Long Beach, Calif. Canned ripe olives, artichokes, tuna fish, pimentos, etc. No. 156,510; June 27.
Daubenspeck Chain Company, Butler, Pa. Vehicle wheel and tire chains. No. 156,511; June 27.
Davidson, Latham A., West Milford, W. Va., assignor to The Ray-Vin Medicine Co. Specific for cholera infantum. No. 20,985; renewed Apr. 19, 1922.
De Long Hook and Eye Company, The. (See Richardson & De Long Bros., assignors.)
Devoe Manufacturing Company, The, assignor to Standard Oil Company of New York. Refined oil. No. 20,770; renewed Feb. 23, 1922.
Duluth-Superior Milling Company. (See Minkota Milling Company, assignors.)
Du Pont, E. I., de Nemours & Company. (See Arlington Collar and Cuff Co., assignor.)
Eclipse Light Company, New York, N. Y., assignor to London Lightingwares Corporation. Certain fixtures and parts thereof, heaters, lamps, ranges, grills, and cooking stoves. No. 156,512; June 27.
Edna May Candy Co., Harrisburg, Pa. Candy. No. 156,537; June 27.
Farrington, G. B., Company, The, New York, N. Y. Coffee. No. 156,513; June 27.
Fastfeed Drill & Tool Corporation, The, Toledo, Ohio. Drills, reamers, end mills, and slitting saws. No. 156,514; June 27.
Fleischer, Joseph, New York, N. Y. Hair nets. No. 156,569; June 27.
Galloway-West Company, Fond du Lac, Wis. Concentrated preparation of milk, cocoa, sugar, and vanilla. No. 156,570; June 27.
Gannett, William H., Augusta, Me., assignor to The Giant Oxie Company. Remedy for nervous disorders. No. 21,516; renewed July 26, 1922.
Giant Oxie Company, The. (See Gannett, William H., assignor.)
Gladding, B. F., & Co. Inc., South Otselic, N. Y. Fishing lines. Nos. 156,516–17; June 27.
Goelitz, Herman, Portland, Oreg. Candy. No. 156,518; June 27.
Goheen Corporation, The, Wilmington, Del., and Warren, Ohio. Paints for foundation and finishing coats on certain materials. No. 156,519; June 27.
Goodell-Pratt Company, Greenfield, Mass. Certain tools and machinery. No. 156,520; June 27.
Green, Wayne B., Houston, Tex. Paint renovator. No. 156,521; June 27.
Greenhut, Herman J., Pensacola, Fla. Candies and canned soups. No. 156,522; June 27.
Grumbacher, Max, New York, N. Y. Artists' brushes. No. 156,523; June 27.
Gudebrod Bros. Silk Co., New York, N. Y., and Philadelphia, Pa. Spool silk. No. 156,524; June 27.
Hasslinger, Walter, Baltimore, Md. Fresh and cooked crabs, clams, shrimp, and oysters, etc. No. 156,571; June 27.
Hauser & Weil, New York, N. Y. Certain bags, boxes, and cases. No. 156,525; June 27.
Hearn, James A., & Son, Inc., New York, N. Y. Nainsooks, poplins, long cloth, and cambrics in the piece. No. 156,526; June 27.
Henckels, J. A., New York, N. Y. Razors. No. 156,527; June 27.
Hendler Creamery Company, The, Baltimore, Md. Ice cream. No. 156,528; June 27.
Hills Brothers Company, The, New York, N. Y. Dates. No. 156,572; June 27.
Hudford Company of Chicago, Chicago, Ill. Motor trucks, conversion units for making motor trucks from automobiles, and parts thereof. No. 156,529; June 27.
Johnson, Jesse C., San Francisco, Calif. Fuel-oil pumps and crude-fuel-oil pumping equipment. No. 156,531; June 27.
King, John P., Manufacturing Co., The, Augusta, Ga. Cotton piece goods. No. 156,573; June 27.
Kopp, C. M., Company, The, Yakima, Wash. Fresh apples and pears. No. 156,532; June 27.
Kosofsky, Aaron, New York, N. Y. Rabbit skins dyed by special process to be made into fur garments. No. 156,533; June 27.
Langley & Michaels Co., San Francisco, Calif. Candies. No. 156,574; June 27.
Lewis, A. H., Medicine Co., The, Bolivar, Mo., assignor to The A. H. Lewis Medicine Company. Liver regulator and blood purifier. No. 21,202; renewed May 24, 1922.
London Lighting Wares Corporation. (See Eclipse Light Company.)
Lonsdale Company, Providence, R. I. Cotton piece goods. No. 156,534; June 27.
Malt Extract Co., St. Louis, Mo. Hops. No. 156,535; June 27.
Manhattan Rubber Mfg. Co., The, Passaic, N. J. Machine belting. No. 156,536; June 27.
Meredith-Jones, J., & Sons, Wrexham, North Wales, assignor to J. Meredith-Jones & Sons, Ltd. Leather of all kinds, skins wrought and unwrought, and articles made of leather. No. 21,070; renewed May 3, 1922.
Merit Underwear Company, Shoemakersville, Pa. Women's knitted underwear. No. 156,538; June 27.
Merlino, Angelo, Seattle, Wash. Olive oil. No. 156,539; June 27.
Minkota Milling Company, Duluth, Minn., assignor to Duluth-Superior Milling Company. Wheat flour. No. 21,940; renewed Nov. 8, 1922.
Morrell, John, & Co., Ottumwa, Iowa. Canned, smoked, and dried meats, soup, marmalade, mincemeat, etc. No. 156,540; June 27.
Morrison, J. L., Company, Inc., The. (See Morrison, James L., assignor.)
Morrison, James L., New York, N. Y., assignor to The J. L. Morrison Company, Inc. Wire-stitching machines. No. 19,124; renewed Mar. 3, 1921.
Morrison, James L., New York, N. Y., assignor to The J. L. Morrison Company, Inc. Wire for stitching machines. No. 19,125; renewed Mar. 3, 1921.

National Dairy Co., The, Toledo, Pioneer, and Oak Harbor, Ohio, and Ennis and Morenci, Mich. Sterilized milk put up in sealed containers. No. 156,575; June 27.
National Starch Manufacturing Company, The, Covington, Ky.; New York, N. Y., and Cincinnati, Ohio, assignor to Corn Products Refining Company. Preparation of starch for laundry or food purposes. No. 20,943; renewed Apr. 5, 1922.
Neubert, R. F., Co., Mankato, Minn. Brooders and incubators. No. 156,541; June 27.
New England Confectionery Company. (See Chase & Company Corporation, assignor.)
New Jersey Car Spring and Rubber Co. Inc. (See New Jersey Car Spring and Rubber Co., assignor.)
New Jersey Car Spring and Rubber Co., Jersey City, N. J., assignor to New Jersey Car Spring and Rubber Co. Inc. Hydraulic hose and machine belting. No. 18,744; renewed Dec. 30, 1920.
Northwestern Expanded Metal Company, Chicago, Ill. Expanded-metal laths. No. 156,542; June 27.
Old Reliable Motor Truck Corporation, Chicago, Ill. Automobile trucks. No. 156,543; June 27.
Oregon City Mfg. Co., Oregon City, Oreg. Woolen blankets. No. 156,544; June 27.
Prunier, Georges & Cie., Paris, France. Mineral-water salts in tablet form. No. 156,515; June 27.
Ray-Vin Medicine Co., The. (See Davidson, Latham A., assignor.)
Reddaway, F., & Co., Manchester, England, assignor to F. Reddaway and Company Limited. Fire hose. No. 21,386; renewed June 28, 1922.
Reddaway, F., & Co., Manchester, England, assignor to F. Reddaway and Company Limited. Machine belting. No. 21,538; renewed Aug. 2, 1922.
Reddaway, F., and Company Limited. (See Reddaway, F., & Co., assignor.)
Rice & Hutchins, Boston, Mass., assignor to Rice & Hutchins, Incorporated. Boots, shoes, and slippers. No. 20,581; renewed Jan. 12, 1922.
Rice & Hutchins, Incorporated. (See Rice & Hutchins, assignor.)
Richardson & De Long Bros., Philadelphia, Pa., assignor to The De Long Hook and Eye Company. Hooks and eyes. No. 21,076; renewed May 3, 1922.
Richardson & De Long Bros., Philadelphia, Pa., assignor to The De Long Hook and Eye Company. Hooks and eyes for garments. No. 20,923; renewed Apr. 5, 1922.
Roberts, G. G., Corporation, Whitman, Mass. Carpet-laying tacks. No. 156,545; June 27.
Roberts, W. C., Company, Indianapolis, Ind. Display cabinet for nuts and the like. Nos. 156,546–7; June 27.
Robertson, J. T., Soap Company, The, Manchester, Conn., assignor to The Bon Ami Co. Soap and other cleaning and detergent preparations. No. 21,425; renewed July 5, 1922.
Romeo y Julieta Cigar Factory. (See Alvarez, Inocencio, assignor.)
Romeo y Julieta Cigar Company. (See Alvarez, Ynocencio, assignor.)
Schapira, William, New York, N. Y. Medicines and pharmaceutical preparations for rheumatism, gout, etc. No. 156,576; June 27.
Schering & Glatz, New York, N. Y., assignor to Schering & Glatz Inc. Chemical products derived from sugar. No. 21,864; renewed Oct. 11, 1922.
Sciarra, Peter, Benld, Ill. Live poultry. No. 156,548; June 27.
Shawcross, Cyril B., Fort Meyers, Fla. Polish for use on automobiles, carriages, pianos, etc. No. 156,549; June 27.
Smedley, John, Ltd. (See Smedley, John, assignor.)
Smedley, John, Lea Mills, near Derby, England, assignor to John Smedley, Ltd. Hosiery. No. 20,906; renewed Mar. 29, 1922.
Smith, Gilman B., Company, Inc., New York, N. Y. Certain named notions. No. 156,550; June 27.
Southall Bros. & Barclay, Birmingham, England, assignor to Southall Bros. & Barclay, Ltd. Cod-liver oil and preparations of cod-liver oil. No. 21,106; renewed May 10, 1922.
Southall Bros. & Barclay Ltd. (See Southall Bros. & Barclay, assignors.)
Standard Oil Company of New York. (See Devoe Manufacturing Co., The.)
Standard Oil Company, (Incorporated in New Jersey), Bayonne, N. J. Certain named oils, greases, and waxes. Nos. 156,551–2; June 27.
Starkel Candy Company, Stillwater, Minn. Candies. No. 156,577; June 27.
Steinberger, Louis, Jersey City, N. J. Nonalcoholic, noncereal, maltless beverages and sirups for making same. No. 156,553; June 27.
Stephens, Hugh, Printing & Stationery Company, Jefferson City, Mo. Covers for embossed and illuminated dance programs, invitations, calendars, announcements, etc. No. 156,530; June 27.
Stoecker, Adolph, & Son, Brooklyn, N. Y. Coffee. No. 156,554; June 27.
Stoll Mfg. Co., The, Denver, Colo. Beds, tables, and chairs. No. 156,555; June 27.
Texas Company, The, Houston, Tex., and New York, N. Y. Certain named construction materials. No. 156,556; June 27.
Townsend, Howard W., Richmond, Ind. Candies. No. 156,557; June 27.
United States Gypsum Company, Chicago, Ill. Calcined gypsum, plaster of Paris, and Keene's cement. No. 156,560; June 27.
Veghte, Harry V., New York, N. Y. Inner tubes for pneumatic tires. No. 156,558; June 27.
Vinikow, Joseph, Seattle, Wash. Candies. No. 156,559; June 27.
Vinolia Company Limited. (See Blondeau et Cie., assignor.)
Wampole, Henry K., and Company. (See Wampole, Henry K., & Co., assignors.)
Wampole, Henry K., & Co., Philadelphia, Pa., assignors to Henry K. Wampole and Company, Incorporated. Remedy for diseases of the uterine organs and similar ailments. No. 21,233; renewed May 31, 1922.
Warrenton Clam Co., Warrenton, Oreg. Canned clams, fish, and berries. No. 156,561; June 27.
Weaver Manufacturing Company, Springfield, Ill. Vehicle wheel antiskid chains and attachments. No. 156,562; June 27.
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Radio telephone and telegraph transmitters and receivers, antenna outfits, etc. No. 156,578; June 27.
Westinghouse Lamp Company, Bloomfield, N. J. Incandescent electric lamps. No. 156,579; June 27.
Wheeler, Hayden W., & Co., New York, N. Y., assignors to Hayden W. Wheeler & Co. Inc. Watches and jewelry. No. 21,725; renewed Sept. 6, 1922.
Wolf, H., & Sons, Cincinnati, Ohio. Undershirts, hosiery, drawers, and union suits. No. 156,563; June 27.
Woman's World Magazine Co. Inc., Chicago, Ill. Monthly magazine. No. 156,564; June 27.
Youngstown Sheet and Tube Company, Youngstown, Ohio. Iron and steel sheets, sheet roofing, plates, bars, wire hooks, etc. No. 156,565; June 27.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Antelope Valley Fruit Growers Association, Palmdale, Calif. "Antelope." (For Pears.) No. 24,570; June 27.
Bourk-Donaldson-Taylor Fruit Company, The, Denver, Colo. "Extra Select Diamond Brand." (For Boxes of Apples.) No. 24,572; June 27.
Byer & Sons, New York, N. Y. "Byers Golden Almonds." (For Packages Containing Almonds.) Nos. 24,573–4; June 27.
Calso Company, The, Vallejo, Calif. "Calso." (For Water.) No. 24,575; June 27.
Consumers Biscuit Company, New Orleans, La. "Easter Joy." (For Candy.) No. 24,576; June 27.
Crossley, Nat M., Oakland, Calif. "Edgemont." (For Apples.) No. 24,577; June 27.
Detroit Packing Co., Detroit, Mich. "Detroiter Brand." (For Sliced Sugar Cured Bacon.) No. 24,578; June 27.
Gamble, Josephine, Oakland, Calif. "White Eagle." (For Pile Salve.) No. 24,579; June 27.
Gardner, Henry A., doing business as Henry A. Gardner Paint Co., Washington, D. C. "Save the Surface." (For Paints and Varnishes.) No. 24,580; June 27.
Gardner, Henry A., Paint Co. (See Gardner, Henry A.)
Grasselli Chemical Company, Cleveland, Ohio. "Vapocide." (For Insecticides, Fungicides, and Fumigating Materials.) No. 24,581; June 27.
Haughton Elevator & Machine Co., The, Toledo, Ohio. "Haughton." (For Lubricants.) No. 24,582; June 27.
Henderson, Paul S., doing business as The House of Nuts, Denver, Colo. "The Nut Family." (For Nuts.) No. 24,583; June 27.
Henning Wennersten Incorporated, Chicago, Ill. "'M-H' Wennersten's." (For Malt Extracts.) No. 24,584; June 27.
House of Nuts, The. (See Henderson, Paul S.)
Italia Bianchi, doing business as Italia Macaroni Company, Worcester, Mass. "Vermicelli." (For Boxes or Other Packages Containing Vermicelli.) No. 24,571; June 27.
Italia Macaroni Company. (See Italia Bianchi.)
Litit Co., The. (See Shoenberg, Milton H.)
Luden, Wm. H., Inc., Reading, Pa. "Luden's Spearmint Leaves." (For Candy Confections.) No. 24,585; June 27.
Miner, Est. Henry C. Miner, Inc., New York, N. Y. "Miner's Minstrel Black." (For Chemical Preparation in Paste Form Suitable for Blackening the Skin.) No. 24,586; June 27.
National Carbon Company, Inc., New York, N. Y. "Columbia Hot Shot Battery." (For Electric Batteries.) No. 24,587; June 27.

National Commodities Company, Wilmington, Del., and Philadelphia, Pa. "Vaglo Hair Net." (For Hair Nets.) No. 24,588; June 27.
National Commodities Company, Wilmington, Del., and Philadelphia, Pa. "Curlox Oversize Hair Net." (For Hair Nets.) No. 24,589; June 27.
National Foods Products Co., Chicago, Ill. "Sweet-Nut Goobers." (For Salted Peanuts.) Nos. 24,590–1; June 27.
Newark Paraffine & Parchment Paper Co., Newark, N. J., Columbus, Ohio, and New York, N. Y. "Butter Maid Bread." (For Bread.) No. 24,592; June 27.
Playatone Co., The, New York, N. Y. "Rite-Tone Tubephone." (For Musical Instruments.) No. 24,593; June 27.
Putt-Putt Co., The, Chicago, Ill. "Putt-Putt Golf Game." (For a Game Apparatus.) No. 24,594; June 27.
Saniwax Paper Co., Kalamazoo, Mich. "Every-Day." (For Bread.) No. 24,595; June 27.
Saniwax Paper Co., Kalamazoo, Mich. "Snow White." (For Bread.) No. 24,596; June 27.
Saniwax Paper Co., Kalamazoo, Mich. "Daisy." (For Bread.) No. 24,597; June 27.
Saniwax Paper Co., Kalamazoo, Mich. "Sweet Home." (For Bread.) No. 24,598; June 27.
Saniwax Paper Co., Kalamazoo, Mich. "Forget-Me-Not." (For Bread.) No. 24,599; June 27.
Saniwax Paper Co., Kalamazoo, Mich. "White Lily." (For Bread.) No. 24,600; June 27.
Saniwax Paper Co., Kalamazoo, Mich. "Satin White." (For Bread.) No. 24,601; June 27.
Saniwax Paper Co., Kalamazoo, Mich. "White Rose." (For Bread.) No. 24,602; June 27.
See-Moon & Company, Chicago, Ill. "Bonded." (For Tomatoes.) No. 24,603; June 27.
See-Moon & Company, Chicago, Ill. "14 in 1." (For Tomatoes.) No. 24,604; June 27.
Shoenberg, Milton H., doing business as The Litit Co., San Francisco, Calif. "Litit Automobile Electric Cigar Lighter." (For a Counter Card for Displaying Electric Cigar Lighters.) No. 24,605; June 27.
Small, L. K., Company, Los Angeles, Calif. "Derby." (For Oranges.) No. 24,606; June 27.
Snows Candy Corporation, Chicago, Ill. "Snows." (For Candy.) No. 24,607; June 27.
Sultenfuss, G. M., & Co. (See Sultenfuss, George M.)
Sultenfuss, George M., doing business as G. M. Sultenfuss & Co. "Two Way Service." (For Table Salt.) No. 24,608; June 27.
Virden Packing Company, South San Francisco, Calif. "Virden's Thrift." (For Meat Loaf.) No. 24,609; June 27.
Vitamin Food Co. Inc., New York, N. Y. "Vegex Almonds." (For a Vitamine Food Preparation.) No. 24,610; June 27.
Wabasha Roller Mill Company, Wabasha, Minn. "Big Jo." (For Bread.) No. 24,611; June 27.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Belaffsky Brothers, Chicago, Ill. "Hope Hampton Hat." (For Advertising Purposes for Hats.) No. 6,179; June 27.

Bordeleau, David, doing business as Lowell Metal Ceiling Company, Lowell, Mass. "Lowell Metal Ceiling." (For Advertising Purposes for Metal Ceiling.) No. 6,180; June 27.

Breakfast Brownies Company, Helena, Mont., and Minneapolis, Minn. "The Great Bird Puzzles the Brownies." (For Advertising Purposes for Breakfast Food.) No. 6,181; June 27.

Breakfast Brownies Company, Helena, Mont., and Minneapolis, Minn. "Jack Rabbit Acts as a Cab." (For Advertising Purposes for Breakfast Food.) No. 6,182; June 27.

Brewer, Chas. A., & Sons, Chicago, Ill. "Brewer's Questionnaire." (For Advertising Purposes for Game Boards.) No. 6,183; June 27.

Brewer, Chas. A., & Sons, Chicago, Ill. "Order of Dippy Dips." (For Advertising Purposes for Game Boards.) No. 6,184; June 27.

Eaton, Crane & Pike Company, Pittsfield, Mass. "Eaton's Highland Linen—'Strange, isn't it, dear, that you should accept Jack on Eaton's Highland Linen—the same paper I used when I said yes to your father'." (For Advertising Purposes for Eaton's Highland Linen.) No. 6,185; June 27.

Heinz, H. J., Co., Pittsburgh, Pa. "Where the '57' began The Little House that was floated down the River." (For Advertising Purposes for Heinz 57 Varieties.) No. 6,186; June 27.

Heinz, H. J., Co., Pittsburgh, Pa. "Your boy will eat almost anything that tastes good." (For Advertising Purposes for Heinz Pure Food Products.) No. 6,187; June 27.

Ideal Novelty Company, Baltimore, Md. "Ideal Can Spout." (For Advertising Purposes for a Detachable Spout for Containers.) No. 6,188; June 27.

Kant-Skore Piston Company, The, Cincinnati, Ohio. "Kant-Skore Pistons Weigh Lightest—Fit Tightest." (For Advertising Purposes for Pistons.) No. 6,189; June 27.

Lowell Metal Ceiling Company. (See Bordeleau, David.)

Milwaukee Paper Box Company, Milwaukee, Wis. "Baby-Bo Milk Nut." (For Advertising Purposes for a Milk Nut Bar.) No. 6,190; June 27.

Palmolive Company, The, Milwaukee, Wis. "Better than Jewels." (For Advertising Purposes for Palmolive Soap.) No. 6,191; June 27.

Severin, Albert A., Chicago, Ill. "To Advertise the Stamford Fountain Pen." (For Advertising Purposes for Fountain Pens.) No. 6,192; June 27.

Stewart Sand Company, Kansas City, Mo. "Redglo." (For Advertising Purposes for Coke.) No. 6,193; June 27.

Wrigley Pharmaceutical Co., Philadelphia, Pa. "It Costs you 1/10 of a Cent a Cleaning." (For Advertising Purposes for Tooth Paste.) No. 6,194; June 27.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abbott, Frank W., Corporation, New York, N. Y. Ladies hats. No. 158,173; June 27.
Abele Bottling Works. (See Abele, Henry G.)
Abele, Henry G., doing business as Abele Bottling Works, Peekskill, N. Y. Beverages sold as soft drinks and sirup for making same. No. 163,851; June 27.
Adolph Rosenberg & Co. Inc., New York, N. Y. Cotton linings. No. 159,620; June 27.
Aivory Sox Co., New York, N. Y. Men's cotton, lisle, fiber, and silk hosiery. No. 158,281; June 27.
Alys. (See Wildes, Alice S.)
American Heater Corporation, St. Louis, Mo. Gas water heaters. No. 157,978; June 27.
American Steel & Wire Company of New Jersey, trading as American Steel & Wire Company, Cleveland, Ohio. Cold-drawn steel wire, cold drawn and rolled round, flat, and other shaped steel, aeroplane bracing and trussing wires, etc. No. 156,134; June 27.
Anchor Corrugating Construction Co., New York, N. Y. Buildings. No. 158,465; June 27.
Atlas Foundry Company, The, Cleveland, Ohio. Welding bars and rods. No. 160,273; June 27.
Bailey Brothers Inc., Winston-Salem, N. C. Cigarettes and smoking tobacco. No. 162,913; June 27.
Baker, S. D. Manufacturing Company. (See Baker, S. D.)
Baker, Stephen D., doing business as S. D. Baker Manufacturing Company, New York, N. Y. Soap, tumbler, and toothbrush holders, shelves, towel bars, etc. No 155,798; June 27.
Barnes, Alfred G., Cuyahoga Falls, Ohio. Preparation in the form of salve for the relief of influenza and a preparation in tablet form for colds. No. 160,275; June 27.
Bausch & Lomb Optical Co., Rochester, N. Y. Ophthalmic lenses. No. 158,220; June 27.
Berge-Rathbun Co., Boston, Mass. Liquid indicating gauges. No. 158,034; June 27.
Berry, Chester R., St. Paul, Minn. Cigars, cigarettes, and smoking tobacco. No. 162,100; June 27.
Berwick, F. W., & Co., Ltd., London, England. Automobiles. No. 131,205; June 27.
B/G Sandwich Shops, Kansas City, Mo. Sandwiches and pastry. No. 152,868; June 27.
Blanke-Baer Extract & Preserving Company, St. Louis, Mo. Jellies, fruit preserves, apple butter, and flavoring extracts. No. 157,012; June 27.
Boss Washing Machine Company, The, Norwood, Ohio. Washing machines for laundry purposes. No. 160,535; June 27.
Briden, L. L., & Co., Boston, Mass. Dyes. Nos. 160,180–1; June 27.
Brooks Brothers Drug Company. (See Brooks, Charles J.)
Brooks, Charles J., doing business as Brooks Brothers Drug Company. Medicinal preparation recommended as a mop and gargle. No. 159,781; June 27.
Brown & Pengilly, Los Angeles, Calif. Overload relays. No. 160,746; June 27.
Bullinger, H. L., doing business as The Piano Exchange, Los Angeles, Calif. Phonographs. No. 149,557; June 27.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Bulubassis, George J., New York, N. Y. Olive oil. No. 155,043; June 27.
Burns Products Company, Ansonia, Conn. Soap and soap powders. No. 159,917; June 27.
Burrows, Eastman A., Chicago, Ill. Refrigerating apparatus, artificial-ice machinery. No. 156,877; June 27.
Cadillac Washing Machine Co., Chicago, Ill. Electrically-operated textile-fabric-washing machines. No. 158,298; June 27.
Carvel & Buquor, El Paso, Tex. Automobiles. No. 162,160; June 27.
Champion Spark Plug Company, Toledo, Ohio. Spark plugs and parts thereof. No. 160,924; June 27.
Charles William Stores Inc., The, Brooklyn, N. Y. Storage batteries. No. 145,673; June 27.
Cherry, Edgar M., Eastport, Me. Dry, ready-mixed, and paste paints. No. 157,139; June 27.
Chloreate Company, The, Chicago, Ill. Toilet powder. No. 159,198; June 27.
Cincinnati Frog & Switch Co., Cincinnati, Ohio. Railway frogs, crossings, rail braces, and guard rails. No. 160,869; June 27.
Classo Album Company. (See Kasnick, Anton F.)
Clayburgh Brothers, San Francisco, Calif. Tubular knit fabric made of artificial silk. No. 159,851; June 27.
Cleveland Builders Supply & Brick Company, Cleveland, Ohio. Prepared mixture for use in making mortar. No. 126,171; June 27.
Clift and Goodrich Inc., New York, N. Y. Women's knit underwear. No. 129,447; June 27.
Clifton Mfg. Company, Waco, Tex. Tents, awnings, paulins, tarpaulins, etc. No. 148,202; June 27.
Coats, George A., Indianapolis, Ind. Automobiles, motor-propelled trucks, etc. No. 158,916; June 27.
Columbia Mills,, Inc., The, New York, N. Y. Window-shade cloth in the piece made of cotton muslin. No. 159,646; June 27.
Con-Den-Rit Radiant Log Corporation, The, Perth Amboy, N. J. Gas logs and stoves. No. 154,637; June 27.
Continental Battery Company, St. Louis, Mo. Lead battery plates. No. 161,528; June 27.
Corona Cord Tire Company, East Butler, Pa. Automobile tire casings and tubes of rubber. No. 139,147; June 27.
Crandall, Bruce V., Chicago, Ill. Magazine published monthly. No. 159,144; June 27.
Cremint Co., New York, N. Y. Mint candy and mint tablets. No. 157,554; June 27.
Crescent Oil Company, Indianapolis, Ind. Lubricating oils. No. 128,545; June 27.
Crocker Pen Company, Everett, Mass. Writing ink. No. 156,677; June 27.
Darneille, Benjamin F., doing business as Le Pinx Laboratories, Springfield, Ill. Skin cleansing and toilet creams, toilet powders, shampoos, etc. No. 163,435; June 27.
Dayton Pump & Manufacturing Company, The, Dayton, Ohio. Electrical house pumps, water systems, gasoline pumps, etc. No. 158,759; June 27.
De Smet, George W., Chicago, Ill. Carbon black. No. 158,607; June 27.
Di Bianco, Emilio, New York, N. Y. Olive oil. No. 157,660; June 27.
Dobschutz, Walter, St. Louis, Mo. Electric lights for automobile running boards. No. 159,958; June 27.
Doehler Die-Casting Company, Brooklyn, N. Y. Nonferrous metal castings. Nos. 144,019–20; June 27.
Dolge, C. B., Company, The, Westport, Conn. Product for cleaning out waste, drain, or stopped-up pipes. No. 158,470; June 27.
Dover Manufacturing Company, The, Dover, Ohio. Electrical heating elements for sadirons, branding and soldering irons. No. 145,504; June 27.
Dreyer & Butz, Newark, N. J. Apparatus for copying drawings and the like. No. 157,261; June 27.
Duplan Silk Corporation, New York, N. Y. Knitted, netted, and textile fabrics. No. 156,987; June 27.
Eagle Lock Co., Terryville, Conn. Locks, night latches, and padlocks. No. 159,353; June 27.
E. A. Laboratories, Inc., Brooklyn, N. Y. Electrical warning signals. No. 155,490; June 27.
Ekbergh, Ida D., doing business as Swedish Pan-Cakery, Minneapolis, Minn. Pancake flour. No. 154,079; June 27.
Elam, Wade H., Nashville, Tenn. Beverage sold as a soft drink and sirup for making same. No. 163,439; June 27.
Erb, C. F., & Son, Fort Thomas, Ky. Candy. No. 157,831; June 27.
Erie Flour Company. (See Scanlon, Michael B.)
Fair, The, Chicago, Ill. Cigars. No. 149,220; June 27.
Fair, The, Chicago, Ill. Men's hats. No. 156,893; June 27.
Ferrera, Giuseppe, Corona, N. Y. Liniment for rheumatism. No. 137,369; June 27.
Flintkote Company, The, Boston, Mass. Roofing and flooring materials. No. 136,118; June 27.
Flintkote Company, The, Boston, Mass. Sheathing and building paper. No. 157,994; June 27.
Forman & Levinson, New York, N. Y. Hats and caps. No. 156,572; June 27.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. Nos. 161,425–6; June 27.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. No. 161,428; June 27.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. Nos. 161,430–2; June 27.
Fujisawa, T., & Company, New York, N. Y. Chemicals and pharmaceuticals. No. 147,236; June 27.
Fuld and Hatch Knitting Company, Albany, N. Y. Knitted garments. No. 157,833; June 27.
Gene Vall Cigar Co. Inc., New York, N. Y. Cigars. No. 160,494; June 27.
Goheen Corporation, The, Wilmington, Del., and Warren, Ohio. Paints for foundation and finishing coats. No. 129,135; June 27.
Goheen Corporation, The, Wilmington, Del., and Warren, Ohio. Waterproofing compound for concrete, plaster, and stucco. No. 129,132; June 27.
Goheen Corporation, The, Wilmington, Del., and Warren, Ohio. Paint for steel, iron, wood, concrete, cement, tile, and plaster. No. 129,134; June 27.
Goodrich, B. F., Company, New York, N. Y. Liquid wood-rim, vulcanizing, and rubber cements, repair gum, and outfits. No. 137,461; June 27.
Goodrich, B. F. Company, The, New York, N. Y. Adhesive tire-repair materials. No. 137,472; June 27.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Vehicle tires. No. 142,843; June 27.
Gosselin, Etienne, Biddeford, Me. Salve for the treatment of sores, burns, boils, eczema, and the like. No. 158,864; June 27.
Gowen-Lecesne, Anne V., Paris, France. Basic materials used in the manufacture of refractory bricks and emery wheels. No. 133,865; June 27.
Grant, W. T., Company, New York, N. Y. Dry batteries. No. 161,184; June 27.
Graton & Knight Manufacturing Company, The, Worcester, Mass. Leather belting. No. 117,661; June 27.
Grenoble, Arthur G., Baltimore, Md. Serum for the treatment of cancer. No. 163,270; June 27.
Guthrie & Co. Limited, Singapore, Straits Settlements, and London, England. Coats, suits, underwear, hosiery, neckties, shirts, etc. No. 154,308; June 27.
Gutterman, A. M., & Sons Co., Boston, Mass. Leathers. No. 163,516; June 27.
Hadfields Limited, Sheffield, England. Certain instruments and appliances used by dentists and surgeons. No. 136,263; June 27.
Hamilton Manufacturing Company, The, Two Rivers, Wis. Printers' furniture. No. 145,894; June 27.
Harbison-Walker Refractories Company, Pittsburgh, Pa. Refractory cement. No. 157,096; June 27.
Harrison, Benjamin V., Co., Boston, Mass. Leathers. No. 162,413; June 27.
Heim, Henry E., Portland, Oreg. Hot-water equalizers. No. 155,962; June 27.
Heppenstall Forge and Knife Company, Pittsburgh, Pa. Steel for use in the manufacture of die blocks, tool steel forgings, etc. No. 159,089; June 27.
Herendeen Milling Company, Chicago, Ill. Bread. No. 150,682; June 27.
Hill, Nathan S., Boston, Mass. Cement for repairing broken china, glass, etc. No. 158,236; June 27.
Hoffmann-La Roche Chemical Works, The, New York, N. Y. Medicinal preparation. No. 158,679; June 27.
"Holemtite" Auto Seat Company, The, Chattanooga, Tenn. Auxiliary seats for automobiles. No. 163,085; June 27.
Hoyland Flour Mills Company, Kansas City, Mo. Wheat flour. No. 160,348; June 27.
Hubbs, Charles F., & Co., New York, N. Y. Paper from which patterns are made. No. 161,883; June 27.
Hubbs, Charles F., & Co., New York, N. Y. Writing and printing papers. No. 161,884; June 27.
Hurewich, Bertha, Philadelphia, Pa. Curling liquid. No. 160,289; June 27.
Hy-Ray Products Co. (See McConomy, Paul L.)
Independent Gravel Company, Joplin, Mo. Stucco. No. 146,439; June 27.
International Permold Company, Cleveland, Ohio. Metal castings. No. 162,819; June 27.
Jacobi, Harry E., Baltimore, Md. Chronometers, watches, clocks, wrist watches, and sautoir watches. No. 162,014; June 27.
Jewel Phonoparts Company, Chicago, Ill. Diaphragms for phonograph reproducers. No. 150,538; June 27.
Justa Manufacturing Company, Oklahoma, Okla. Rubber patches for tires and all rubber articles. No. 151,917; June 27.
Kahn's Perfumery. (See Kahn, William.)
Kahn, William, doing business as Kahn's Perfumery, St. Louis, Mo. Cold, foundation, and massage creams, skin balms, lemon lotions, etc. No. 159,422; June 27.
Kasnick, Anton F., doing business as Classo Album Company, Elmhurst, Ill. Phonograph-record albums. No. 150,814; June 27.
Keep Klean Kover Co., St. Louis, Mo. Automobile seat covers. No. 149,280; June 27.
Kerlin, Arthur E., Center Hall, Pa. Laying mash, starting and growing foods, hatching eggs, and baby chickens. No. 154,519; June 27.
Koken Companies, St. Louis, Mo. Toilet waters and perfumes. No. 159,421; June 27.

Koppers Company, The Pittsburgh, Pa. Coke. Nos. 157,488–9; June 27.
Lamson Brothers Co., The, Toledo, Ohio. Flannels in the piece. No. 158,131; June 27.
Lewyn Drug Co. (See Lewyn, Isadore.)
Lewyn, Isadore, doing business as Lewyn Drug Co., Houston, Tex. Women's tonic and regulator. No. 159,271; June 27.
Le Pinx Laboratories. (See Darneille, Benjamin F.)
Liberty Paper Co., New York, N. Y. Sealing tape. No. 162,123; June 27.
Lichstenstein Mittenthal Company, Dallas, Tex. Ladies', misses', and children's trimmed hats. No. 158,001; June 27.
Light-Sight Products Corporation, Pierre, S. Dak., and Warren, Pa. Electric lamp. No. 159,601; June 27.
Lion Varnish Company, Glendale, N. Y. Ready mixed paints and varnishes and floor filler. No. 155,230; June 27.
Lipman Wolfe & Co., Portland, Oreg. Men's and boys' suits, overcoats, and topcoats. No. 155,312; June 27.
Listo Pencil Corporation, Alameda, Calif. Pencils. No 162,186; June 27.
Little Giant Company, Mankato, Minn. Devices for sustaining clothing, linen, floor coverings, etc., at variable heights in connection with the laundering of the same. No. 159,424; June 27.
Logar, Bertha, New York, N. Y. Hair restorer for restoring hair and removing dandruff. No. 158,991; June 27.
Lord & Taylor, New York, N. Y. Pyjamas. No. 155,507; June 27.
Lord, George A., Gasport, N. Y. Polish for automobiles, pianos, talking machines, furniture, and hardwood floors. No. 148,843; June 27.
Loveland, Arthur S., doing business as Paradise Appliance Company. Electric dish-washing machines. No. 161,928; June 27.
Ludlum Steel Company, Watervliet, N. Y. Alloy steel. Nos. 162,747–8; June 27.
Lyndon Chemical Company, The, Dayton, Ohio. Germicide disinfectant and deodorizer for expelling insects and the like from animals. No. 160,143; June 27.
Magnolia Metal Company, New York, N. Y. Babbitt, bearing, and antifriction metals and alloys. No. 163,454; June 27.
Mall Dunn Medicine Company, Boston, Mass. Reconstructive tonic. No. 160,294; June 27.
Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. No. 160,557; June 27.
Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. No. 161,560; June 27.
Mason Motor Truck Company, Flint, Mich. Motor trucks and constructive parts thereof. No. 162,497; June 27.
Maxwell Motor Corporation, Detroit, Mich. Automobiles and their parts. No. 157,435; June 27.
McConomy, Paul L., trading as Hy-Ray Products Co., Philadelphia, Pa. Sunburn cream. No. 160,144; June 27.
McCreery, James, & Company, New York, N. Y. Clocks. No. 158,243; June 27.
McEvoy, Joseph P., Chicago, Ill. Series of separate illustrated stories or playlets in verse and prose. No. 159,273; June 27.
McLoughlin Bros., Inc., Springfield, Mass. Books in a continuing series. No. 159,214; June 27.
Melodia Phonograph Co., Chicago, Ill. Phonographs. No. 130,682; June 27.
Merchants Coffee Co. of New Orleans Ltd., New Orleans, La. Coffee. No. 156,332; June 27.
Meyrowitz, E. B., Inc., New York, N. Y. Eyeglasses. No. 157,327; June 27.
Meyer, Edward, Louisville, Ky. Polish for furniture, automobiles, and musical instruments. No. 144,031; June 27.
Migel, J. A. Inc., New York, N. Y. Men's and boys' dress shirts, collars, neckties, nightsnirts, dressing gowns, etc. No. 153,681; June 27.
Milich, Charles, New York, N. Y. Negligee and work shirts and pyjamas. No. 156,585; June 27.
Mitchell Brothers Company, Chicago, Ill. Ladies' dresses, suits, and cloaks. No. 139,363; June 27.
Modern Neckwear Company. (See Turilli, Mario F.)
Moore, Benjamin, & Co., Jersey City, N. J., and Brooklyn, N. Y. Varnish stain. No. 153,762; June 27.
Moulton, Walter E., doing business as Safety Products Company, Geneva, Ohio. Electric signal lights for use on vehicles. No. 157,436; June 27.
Mulford, H. K., Company, Philadelphia, Pa. Preparation used as a remedy for insomnia and restlessness. No. 159,371; June 27.
Muser Brothers, New York, N. Y. Silk piece goods. No. 156,848; June 27.
Mybrow Bros., Boston, Mass. Bicycles. No. 159,976; June 27.
New England Supplies Corporation, The, Boston, Mass. Hair nets. No. 159,663; June 27.
North American Watch Company, Mansfield, Ohio. Watchcases and watchcase guards. No. 142,998; June 27.
Northwest Fruit Products Co., Salem, Oreg. Loganberry juice. No. 163,644; June 27.
Noxaboil Laboratories. (See Ruckel, John F.)
Nu Bone Corset Company, The, Corry, Pa. Corsets. Nos. 158,326–7; June 27.
Orr, Frank, doing business as Orro Ointment, Tulsa, Okla. Ointment for the treatment of sweaty and fetid feet and arms. No. 158,639; June 27.
Orro Ointment. (See Orr, Frank.)
Page & Shaw, Inc., Boston and Cambridge, Mass. Candy. No. 157,233; June 27.
Paradise Appliance Company. (See Loveland, Arthur S.)
Paris, Raphael N., York, Pa. Cigars and little cigars. No. 164,068; June 27.
Pelzer Manufacturing Company, Pelzer, S. C. Cotton piece goods. No. 159,178; June 27.
Peterman, Henry, Brooklyn, N. Y. Ready-mixed paints, oils, and varnishes. No. 153,407; June 27.
Philadelphia Steam Heating Co., Philadelphia, Pa. Automatically electrically-controlled draft devices for heating apparatus. No. 159,611; June 27.
Piano Exchange, The. (See Bullinger, H. L.)
Pittsburgh Reinforced Brazing & Machine Company, Pittsburgh, Pa. Valves and pipe fittings. No. 158,886; June 27.
Plymouth Cordage Company, Plymouth, Mass. Hard fiber cordage, including cables, ropes, and twine. No. 158,800; June 27.
Poole, John W., doing business as Victory Bottling Works, Terre Alta, W. Va. Beverages sold as soft drinks and sirups for making same. No. 163,892; June 27.
Priest, Harry D., doing business as Priest, Page & Co., Boston, Mass. Hand trucks designated in the trade as mill cars. No. 161,060; June 27.
Priest, Page & Co. (See Priest, Harry D.)
Production Service, The. (See Radebaugh, Gustav H.)
Prometheus Electric Company, The, New York, N. Y. Wireless-telephone receiving sets. No. 159,524; June 27.
Pure Products Syrup Corporation, New York, N. Y. Beverages sold as soft drinks and sirups for making same. No. 163,467; June 27.
Py-Re-Gon Company, Chicago, Ill. Medicinal compound for the treatment of pyorrhea. No. 155,273; June 27.
Pyo-Coda Laboratories, New York, N. Y. Preparation for the treatment of pyorrhea. No. 158,948; June 27.
Quateman, David, Chicago, Ill. Powdered boric acid, alum, borax, etc. No. 142,719; June 27.
Racine Electric Co., Racine, Wis. Electric motors. No. 162,059; June 27.
Racine Rubber Company, Racine, Wis. Rubber or rubber and fabric tires and tubes for vehicles. No. 130,493; June 27.
Radebaugh, Gustav H., doing business as The Production Service, Urbana, Ill. Job bulletin boards. No. 159,616; June 27.
Rapp, Arthur R., Company, Chicago, Ill. Wrapping paper, bond paper, and cover paper. No. 162,058; June 27.
Reid, Murdoch & Co., Chicago, Ill. Grape juice. No. 163,175; June 27.
Reliance Metal Spinning & Stamping Co., Inc., Brooklyn, N. Y. Metal ware and metal culinary utensils. No. 158,151; June 27.
Rogers, Urbane E., Company, Dallas, Tex. Vegetable-oil soap. No. 157,959; June 27.
Ruckel, John F., doing business as Noxaboil Laboratories, Chicago, Ill. Medicinal preparation for the treatment of boils, pimples, abscesses, etc. No. 160,431; June 27.
Russell Manufacturing Company, The, Middletown, Conn. Suspenders. No. 131,660; June 27.
Russell, William I., Baltimore, Md. Medicinal preparation for eczema and other skin diseases. No. 158,152; June 27.
Rutland Fire Clay Co., Rutland, Vt. Asbestos furnace cement, iron cement, gas-retort cement, etc. No. 161,337; June 27.
Rutland Fire Clay Co., Rutland, Va. Stove and boiler putty. No. 154,992; June 27.
Safety Products Company. (See Moulton, Walter E.)
Saperston Manufacturing Co., The, Chicago, Ill. Arch supports. No. 143,897; June 27.
Sargoy Bros., Brooklyn, N. Y. Washboilers. No. 155,837; June 27.
Scanlon, Michael B., doing business as Erie Flour Company, Buffalo, N. Y. Flour. No. 1,141,330; June 27.
Schmidt, Charles G., Philadelphia, Pa. Polish for automobiles, pianos, furniture, safes, etc. No. 157,452; June 27.
Schreiber Products Corporation, Buffalo, N. Y. Malt-extract sirup for food purposes. No. 146,504; June 27.
Schweyer, John L., Norristown, Pa. Pure silk threads or yarns, artificial silk threads or yarns. No. 149,362; June 27.
Scofield, Evans and Company, Chicago, Ill. Liquid waterproofing compounds. No. 157,110; June 27.
Scott, Wm., Jr., Norristown, Pa. Hosiery. No. 156,343; June 27.
Seattle Pipeless Furnace and Manufacturing Company, Seattle, Wash. Coal furnaces. No. 159,724; June 27.
Sharlin, Solomon, Trenton, N. J. Electric-lighting fixtures and parts. No. 157,081; June 27.
Sheridan Motor Car Company, Muncie, Ind. Automobiles. No. 136,654; June 27.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Shields, Marie, New York, N. Y. Toilet preparations. No. 159,295; June 27.
Shlivek Brothers Fabrics Corporation, New York, N. Y. Wool, wool and cotton, and wool and silk mixture fabrics in the piece. No. 159,290; June 27.
Sidney Cigar Manufacturing Company, Sidney, Ohio. Cigars. No. 162,584; June 27.
Sigmund Ullman Co., New York, N. Y. Printing inks. No. 158,729; June 27.
Simonson, Rogers & Jaeger, New York, N. Y. Linings and pocketings in the piece. No. 132,272; June 27.
Simplex Automobile Company, Inc., Long Island City, N. Y. Automobiles. No. 128,282; June 27.
Skybryte Company, The, Cleveland, Ohio. Preparation for cleaning and removing dirt, grit, etc., from glass and other glazed surfaces. No. 156,810; June 27.
Societe des Appareils mécaniques d'Hygiène buccale, Paris, France. Instrument for massaging the gums. No. 158,013; June 27.
Societe des Plaques et Poudres à Souder J. Laffitte, Paris, France. Welding plates and powders, brazing and tempering powders. No. 138,346; June 27.
Southern Glass Company, Los Angeles, Calif. Glass bottles. No. 162,958; June 27.
Smith, Conrad T., New York, N. Y. Millinery glue. No. 149,428; June 27.
Smith, Conrad T., New York, N. Y. Millinery lacquer. No. 149,427; June 27.
Square D Company, Detroit, Mich. Porcelain products for electrical use. No. 144,839; June 27.
Standard Crayon Manufacturing Company, Danvers, Mass. Wax and chalk crayons. No. 161,856; June 27.
Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J. Certain oils, greases, and waxes. No. 157,178; June 27.
Standard Oil Company of New York, New York, N. Y. Floor oilers, yarn mops, dust cloths, and yarn dust brushes. No. 162,902; June 27.
Star Motors Incorporated, New York, N. Y. Automobiles and constructive parts thereof. No. 161,341; June 27.
Starr, Raynor F., Chicago, Ill. Washboards. No. 152,142; June 27.
Stelwagon Manufacturing Co., Philadelphia, Pa. Felt roofing. No. 160,366; June 27.
Stern, Joseph, & Sons, Inc., New York, N. Y. Pork sausage. No. 154,535; June 27.
Sterolectric Company, The, Muncie, Ind. Time controller for electric appliances. No. 158,014; June 27.
Sterzelbach, A., & Sons Co., New York, N. Y. Woven, knitted, netted, and textile fabrics in the piece. No. 159,109; June 27.
St. Lawrence Boat Works, Inc. Ogdensburg, N. Y. Skiffs, rowboats, and canoes. Nos. 163,007–8; June 27.
Stoddart Bros., Inc., Buffalo, N. Y. Medical preparation for reducing blood pressure. No. 158,542; June 27.
Strauss & Co. (See Strauss, Max.)
Strauss, Max, doing business as Strauss & Co., New York, N. Y. Piece goods. No. 161,392; June 27.
Swartz, Thomas J. (See Thomas Textile Co., assignor.)
Sweet Candy Co., Salt Lake City, Utah. Candy. No. 123,779; June 27.
Swedish Pan-Cakery. (See Ekbergh, Ida D.)
Thomas Textile Company, New York, N. Y., assignor to Thomas J. Swartz. Babies' diapers. No. 158,201; June 27.
Thomas, Lydia B., Kennett Square, Pa. Children's suits. No. 157,286; June 27.
Thatcher Manufacturing Co., Elmira, N. Y. Glass milk bottles. No. 147,949; June 27.
Tobin, Louise S., Kansas City, Mo. Overalls, jumpers, union underwear, and combination suits. No. 154,390; June 27.
Triangle Motors, Incorporated, Chicago, Ill. Remanufactured automobiles. No. 159,063; June 27.
Tsutsumi, Seiroku, Tokyo, Japan. Canned crab meat, fish, vegetables, fruits, and pickles. No. 145,046; June 27.
Turilli, Mario F., trading as Modern Neckwear Company, Providence, R. I. Neckties. No. 156,195; June 27.
"Turmac" Turkish-Macedonian Tobacco Co., Arnhem, Netherlands. Smoking and chewing tobacco, cigars, cigarettes, and snuff. No. 159,226; June 27.
Ultra Refined Crude Products Co., Chicago, Ill., Medicinal preparation. No. 159,065; June 27.
United Alloy Steel Corporation, New York, N. Y., and Canton, Ohio. Steel, alloy steel, iron and steel bars, and sheet bars. Nos. 162,222–3; June 27.
U. S. Automobile Indicator Co., The, Bridgeport, Conn. Electric signal and tail lights for use on automobiles. No. 157,593; June 27.
Van Buskirk, Herbert C., doing business as The Van Co., Saugerties, N. Y. Indigestion tablets. No. 154,247; June 27.
Van Buskirk, Herbert C., doing business as The Van Co., Saugerties, N. Y. Laxative. No. 154,246; June 27.
Van Co., The. (See Van Buskirk, Herbert C.)
Victor Safe and Lock Company, The, Cincinnati, Ohio. Safes and locks. No. 161,076; June 27.
Victory Bottling Works. (See Poole, John W.)
Walker, Madam C. J., Manufacturing Company, The, Indianapolis, Ind. Toilet preparations of various kinds of soaps. No. 158,463; June 27.
Walker Stetson Company, Boston, Mass. Hair nets. No. 160,104; June 27.
Ward, Ralph D., New York, N. Y. Cigars, cigarettes, smoking and chewing tobacco, snuff. No. 162,363; June 27.
W. Atlee Burpee Co., Philadelphia, Pa. Vegetable, flower, and field seeds, bulbs, roots, and plants. No. 163,669; June 27.
Wegman, Michael H., New York, N. Y. Suits, coats, overcoats, vests, and trousers. No. 156,425; June 27.
Welshausen, William, Allenhurst, N. J. Shade for eliminating glare upon automobile windshields. No. 159,066; June 27.
Wentworth Clothing Company, Spokane, Wash. Clothing. No. 152,151; June 27.
Weser Bros. Inc., New York, N. Y. Pianos, player pianos, phonographs. No. 146,282; June 27.
West Indies Limes Company, Kansas City, Mo. Nut candy. No. 149,435; June 27.
Wildes, Alice S., doing business as Alys, New York, N. Y. Cigarettes. No. 164,210; June 27.
Wilson, F. L., Oil & Chemical Co. (See Wilson, F. L.)
Wilson, Frank L., doing business as F. L. Wilson Oil & Chemical Co., Barry, Ill. Lubricating oils. No. 154,005; June 27.
Winchester Repeating Arms Co., New Haven, Conn. Split-bamboo fly and split-bamboo bait fishing rods, steel bait-fishing rods, etc. No. 163,063; June 27.
Wingen, Anton, Jr., doing business as Anton Wingen, Jr., Solingen, Germany. Table knives and forks, butchers', kitchen, and painters' knives, razors, scissors, etc. No. 155,537; June 27.
Wondernette Company, New York, N. Y. Hair nets. No. 161,467; June 27.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 27TH DAY OF JUNE, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abdominal protector. H. Goldsmith. No. 1,421,077; June 27.
Acid ester and preparing same, Tropinone-monocarboxylic-. O. Wolfes and H. Maeder. No. 1,420,900; June 27.
Addressing machine. M. F. Cheshire. No. 1,420,814; June 27.
Advertising and display device. T. Mathews. No. 1,421,277; June 27.
Advertising machine. J. W. Duval. No. 1,420,627; June 27.
Aerial vehicles and marine vessels, Means for electrically propelling and communicating with. C. W. Waller. No. 1,421,326; June 27.
Air and gas mixing machine, Automatic. W. W. Kemp and W. H. Van Horn. No. 1,420,658; June 27.
Air-compressing apparatus. G. W. Johnston. No. 1,420,845; June 27.
Aircraft wings and aerofoils, Construction of. J. J. Mayrow. No. 1,421,280; June 27.
Air liquefaction. H. N. Davis. No. 1,420,625; June 27.
Air or other gaseous mixtures, Recovering constituents of. R. Wucherer and F. Pollitzer. No. 1,420,802; June 27.
Airship. J. Schuette. No. 1,420,763; June 27.
Airship. J. Schuette. No. 1,420,865; June 27.
Alarm: *See*—
Burglar alarm.
Alarm. J. B. Locker. No. 1,421,267; June 27.
Alcohol heater. F. W. Gehrer. No. 1,421,209; June 27.
Alloy steel. C. M. Johnson. Nos. 1,420,707–8; June 27.
Amalgam mixer. F. D. Leipold. No. 1,421,016; June 27.
Amusement device. A. Hulsmann. No. 1,421,238; June 27.
Amusement device. J. B. Strauss. No. 1,420,887; June 27.
Animal trap. W. Gedvillas. No. 1,420,833; June 27.
Annealing box. H. H. Goodsell. No. 1,421,212; June 27.
Annunciator, Rotary. F. W. Wood. No. 1,420,801; June 27.
Anticreeping device. W. W. Holland. No. 1,420,703; June 27.
Antiskid device for vehicle wheels. C. D. Schmidt. No. 1,421,103; June 27.
Antiskid means for automobile wheels. W. I. Randle. No. 1,420,667; June 27.
Apparel, Lady's. L. Brenner. No. 1,421,062; June 27.
Armchair, Couch. P. E. Kurnick. No. 1,421,260; June 27.
Article of manufacture. E. W. Clark. (Reissue.) No. 15,393; June 27.
Audibility meter. E. Garretson. No. 1,421,355; June 27.
Auto dress. M. R. Buckley. No. 1,421,162; June 27.
Automatically-adjustable wrench. I. J. Galbraith. No. 1,421,206; June 27.
Automobile bed. H. Wise. No. 1,420,800; June 27.
Automobile curtain support. G. J. Konicek. No. 1,420,710; June 27.
Automobile curtains, Carrying rack for. J. Herrmann. No. 1,420,699; June 27.
Automobile emergency tank. W. L. Washing on. No. 1,421,050; June 27.
Automobile heater. W. A. Kinney. No. 1,421,255; June 27.
Automobile hoods, Supporting bar and hinge construction for. J. B. Covi. No. 1,421,068; June 27.
Automobile lock. A. F. Lewis. No. 1,421,353; June 27.
Automobile signal. S. Fasci. No. 1,420,983; June 27.
Automobile tanks, Liquid-level indicator for. J. C. Fox. No. 1,420,628; June 27.
Automobile turntable. F. F. Clarke and E. R. Inman. No. 1,421,066; June 27.
Automobiles, Detachable wheel for. F. A. Ellis, Jr. No. 1,421,189; June 27.
Automobiles, Lighting and ignition system for. V. F. Mikolasek. No. 1,421,285; June 27.
Automobiles, railway motor cars, and locomotives, Driving device for. R. W. Pratt. No. 1,421,025; June 27.
Automobiles, Sun and storm shade for. H. W. Stewart. No. 1,420,779; June 27.
Bank fixtures, Clear-vision. A. E. Peyton. No. 1,420,942; June 27.
Batteries, Connector for storage. H. E. Walker. No. 1,421,355; June 27.
Battery: *See*—
Storage battery.
Battery connector. G. E. Lundberg. No. 1,421,017; June 27.
Battery terminal, Storage-. E. F. Andreae. No. 1,420,675; June 27.
Bearing. K. Gauldie. No. 1,421,208; June 27.
Bearing, Thrust. S. N. Hall. No. 1,421,082; June 27.
Bearings, Ball and roller. F. E. Lofstrom. No 1,420,852; June 27
Bed, Folding. N. I. Usievich. No. 1,420,894; June 27.
Bed for use on automobiles. E. V. Loustalot. No. 1,421,268; June 27.
Bed support. G. Runnebaum. No. 1,420,755; June 27.
Beds, Frame for automobile. G. H. Stultz. No. 1,420,889; June 27.
Beehives, Division board for. F. D. Bowers. No. 1,420,960; June 27.
Beer digger. P. J. Boyle. No. 1,421,123; June 27.
Bell and burglar alarm, Door. G. Latchem. No. 1,421,091; June 27.
Belt, Power. J. Breuer. No. 1,420,962; June 27.
Belt splice. F. F. Snyder. No. 1,421,036; June 27.
Belts or rings, Method and apparatus for making endless. A. E. Moon. No. 1,420,727; June 27.
Bench stop. I. J. Watts. No. 1,421,328; June 27.
Billets, Method of and apparatus for straightening rolled endless. C. L. Taylor. No. 1,420,785; June 27.
Binder, Loose-leaf. J. Bystrom. No. 1,421,126; June 27.
Binding machine. G. Ardizzonni. No. 1,420,677; June 27.
Binding post. O. A. Smith. Nos. 1,420,770–1; June 27.
Binding strap. A. Bushnell, Jr. No. 1,421,164; June 27.
Biscuit cutting and embossing machine. H. W. Hole. No. 1,421,349; June 27.
Block: *See*—
Toy building block.
Block mold. E. B. Howell. No. 1,421,006; June 27.
Blower-discharge-pipe-operating device. C. and A. Gunning. No. 1,421,080; June 27.
Blowpipes, Bunsen attachment for. C. B. Rogers. No. 1,420,947; June 27.
Board: *See*—
Scoop board.
Boiler: *See*—
Electric boiler.
Boiling and skimming apparatus, Sirup. B. Taylor. No. 1,421,108; June 27.
Bolster stake. J. Pelnar, Sr. No. 1,420,691; June 27.
Book case. A. J. Koepsell. No. 1,421,012; June 27.
Bottle cap and sifter. R. Porter and J. G. Ries. No. 1,420,861; June 27.
Bottle capper. S. L. Goldman. No. 1,420,836; June 27.
Bottle cleaner. E. A. Lee. No. 1,420,714; June 27.
Bottle stopper. J. M. S. Anderson. No. 1,421,118; June 27.
Bottles, Attachment for medicine. R. Harmon. No. 1,421,219; June 27
Box: *See*—
Annealing box.
Driving box.
Fireproof lock box.
Stacking tote box.
Switch box.
Brake beam. E. G. Busse. No. 1,421,064; June 27.
Brick and the like, Interlocking. G. M. Bean. No. 1,420,810; June 27.
Brickmaking. G. A. Warner. No. 1,420,796; June 27.
Broaching machines, Attachment for. F. J. Lapointe. No. 1,421,014; June 27.
Brooders, Heater for. H. M. Sheer. No. 1,421,315; June 27.
Bucket, Dredge. G. R. Hanks. No. 1,421,345; June 27.
Buckets, Sectional lip for dredge. R. W. Seyms. No. 1,421,346; June 27.
Buffer attacher. G. A. Lyon. No. 1,420,854; June 27.
Building. R. L. Day. No. 1,420,973; June 27.
Building construction. C. J. Aschauer. No. 1,421,143; June 27.
Building construction. F. A. Palen. No. 1,421,299; June 27.
Building construction. G. L. Williams. No. 1,421,335; June 27.
Burglar alarm. F. K. Atherton and C. F. Webb. No. 1,421,144; June 27.
Burglar alarm. F. H. Phillips. No. 1,420,743; June 27.
Burner: *See*—
Sulphur burner.
Torch burner.
Burner. F. L. Lindhorst. No. 1,420,850; June 27.
Burners, Stand for alcohol. G. S. Meikle. No. 1,421,284; June 27.
Button and clasp, Collar. T. B. Beckley. No. 1,421,148; June 27.
Buttonhole machines, Thread-pull-off device for. A. L. Plamondon. No. 1,420,745; June 27.

Cabinet, Metal revolving. A. A. West. No. 1,421,331; June 27.
Cage, Bird. J. Stakutis. No. 1,420,880; June 27.
Calipers. A. W. Hoffman. No. 1,420,700; June 27.
Camera. E. E. Manter. No. 1,421,092; June 27.
Can-cooling device. E. W. Hopper. No. 1,420,841; June 27.
Can cover. P. J. Spittler. No. 1,420,772; June 27.
Can opener. G. A. Pattberg. No. 1,420,666; June 27.
Can-washing machines, Can-inverting device for. E. R. Alling and F. F. Wolf. No. 1,421,056; June 27.
Car door. C. M. Cooper. No. 1,420,969; June 27.
Car door, Stock-. R. L. Smith. No. 1,421,105; June 27.
Car-enumerating device. M. S. Phillips. No. 1,421,023; June 27.
Car seal. C. W. Champlin. No. 1,420,968; June 27.
Cars of the dumping-car type, Door for railway. J. Craig. No. 1,420,971; June 27.
Cars, Making clutch rings for motor. T. C. Stanley. No. 1,420,883; June 27.
Cars, Uncoupling device for railway. G. A. Woodman. No. 1,421,351; June 27.
Carbonaceous product and making same. H. Rodman. No. 1,420,754; June 27.
Carburetor and fuel feed. C. L. Stokes. No. 1,420,886; June 27.
Card, Display. W. D. Fennimore. No. 1,421,196; June 27.
Carpet-sweeper attachment. H. Frankenstein. No. 1,420,830; June 27.
Carrier: *See*—
Hay carrier. Milk-bottle carrier.
Case: *See*—
Spool and needle case. Vanity case.
Casing section, Machine for applying a cover or binding to a. C. Fisher. No. 1,420,827; June 27.
Casket handle. R. F. Christian. No. 1,420,815; June 27.
Casket, Metal. B. T. Mesker. No. 1,421,018; June 27.
Cellulose-ester products, Preparing. H. S. Mork and C. F. Coffin, Jr. Nos. 1,421,288–90; June 27.
Cement or mortar, Insulating. A. S. Elsenbast and W. L. Jordan. No. 1,421,192; June 27.
Centrifugal drier. C. R. Mabee. No. 1,420,650; June 27.
Chain. C. C. Davis. No. 1,421,178; June 27.
Chain. G. Horvath. No. 1,420,705; June 27.
Chains, Adjustable hook for antiskid. C. D. Cole and W. J. Burtt. No. 1,420,816; June 27.
Chairs, Detachable arm for reclining. J. J. Hogan. No. 1,420,924; June 27.
Check, Baggage. P. J. Eagan. No. 1,420,991; June 27.
Check holder. J. B. Larkin. No. 1,421,262; June 27.
Chopper: *See*—
Food chopper.
Chris'mas-tree stand. S. Zelazo. No. 1,421,340; June 27.
Chromatrope. J. S. Ewart and W. E. Clifton. No. 1,420,982; June 27.
Chuck. F. E. Bright. No. 1,420,682; June 27.
Chuck. L. E. Stoner. No. 1,420,780; June 27.
Chuck, Flying. A. E. Waller. No. 1,420,794; June 27.
Churns, Dasher mechanism for. W. Bird. No. 1,420,955; June 27.
Cinematography in natural colors. L. Mauclaire. No. 1,421,279; June 27.
Circuit interrupter. L. W. Chubb. No. 1,421,170; June 27.
Clamp: *See*—
Engraver's clamp.
Clamp machine. H. B. Palmer. No. 1,420,941; June 27.
Clamping device. J. Mattson. No. 1,420,725; June 27.
Clasp: *See*—
Hose-supporter clasp. Paper clasp.
Cleaner: *See*—
Bottle cleaner. Window cleaner.
Spark-plug cleaner.
Clip: *See*—
Suspender clip.
Clip. W. C. Steffan, F. B. Ackermann, and W. J. Greiner. No. 1,421,318; June 27.
Closet: *See*—
Sanitary closet.
Closet tanks, Push-button trip lever for low. W. C. Rathbun. No. 1,420,948; June 27.
Closure for containers. C. L. Murphy. No. 1,420,734; June 27.
Clutch control, Duplex safety-. S. S. and L. H. Snell. No. 1,421,317; June 27.
Clutch-control lock. P. H. Dasen. No. 1,420,821; June 27.
Coffee mill. W. Sommers and L. Fritz. No. 1,420,877; June 27.
Coin-delivering device. U. Kawaski. No. 1,420,631; June 27.
Collar and cuff buttons, Protector for. F. F. Schultz. No. 1,421,314; June 27.
Colter. H. R. Traphagen. No. 1,421,111; June 27.
Compensating gauge. C. H. Berry. No. 1,420,953; June 27.
Compressor unloader. S. B. Redfield. No. 1,421,309; June 27.
Concrete and like building block or slab. A. C. Matthews. No. 1,421,278; June 27.
Concrete building form. P. J. Hueber. No. 1,421,236; June 27.
Concrete mixer. J. Stockley. No. 1,421,320; June 27.
Concrete wall. A. M. Cramer. No. 1,421,129; June 27.
Concrete wall, Hollow. J. S. Banks. No. 1,421,145; June 27.
Container and delivery mechanism. C. D. Rosan. No. 1,421,312; June 27.
Continuous press. E. T. Meakin. No. 1,421,282; June 27.
Control system. R. E. De Camp. No. 1,421,180; June 27.
Control system. R. E. Hellmund. No. 1,421,229; June 27.
Control system. H. D. James. Nos. 1,421,242–4; June 27.
Control system. E. S. Lammers, Jr. No. 1,421,261; June 27.
Control system. H. E. Warren. No. 1,420,896; June 27.
Control system and apparatus. E. M. Bouton. No. 1,421,157; June 27.
Control system and switch mechanism therefor. R. E. De Camp. No. 1,421,179; June 27.
Controller. J. M. Brown. No. 1,421,160; June 27.
Controlling and regulating apparatus and system. F. W. Meyer. No. 1,420,858; June 27.
Conveyer, Garment. L. B. H. and W. L. Bixler. No. 1,420,907; June 27.
Cord tip. J. P. Kelly. No. 1,420,632; June 27.
Cord tip. J. P. Kelly. No. 1,420,657; June 27.
Corkscrew, Automatic. J. Chmura. No. 1,421,169; June 27.
Corsets stays in place, Holding. J. C. Bell. No. 1,421,121; June 27.
Crank shaft. R. L. Bailey. No. 1,420,905; June 27.
Cultivator, Disk. D. M. Watters. No. 1,421,113; June 27.
Cup. J. V. Weckbaugh. No. 1,421,114; June 27.
Curling iron. A. Schärer. No. 1,421,313; June 27.
Current circuits, Regulating means for alternating. E. R. Stoekle. No. 1,420,885; June 27.
Current generators, Arrangement for exciting continuous. L. Schön. No. 1,420,761; June 27.
Cushion. J. S. Friede. No. 1,420,990; June 27.
Cutter: *See*—
Fruit cutter. Potato cutter.
Glass-cylinder cutter. Steel cutter.
Cutting machine, Tube-. E. S. Lea. No. 1,421,263; June 27.
Cutting machines, Operating device for. B. F. Stowell. No. 1,421,107; June 27.
Cylinder and making same. G. P. McNiff. No. 1,420,721; June 27.
Cylinders and such like, Support or bearing for drying. W. P. Evans. No. 1,421,193; June 27.
Damper-regulating means for furnaces. W. H. Holt. No. 1,420,704; June 27.
Decimal-point device for chart readers. G. O. Gray. No. 1,420,695; June 27.
Dehydrating, Process and apparatus for. O. Q. Beckworth and O. J. Hobson. No. 1,420,679; June 27.
Depositing machine. F. Westerman. No. 1,420,797; June 27.
Die: *See*—
Forming die.
Dies and counter dies for swaging seamless gold crowns, Producing combined. E. Ono. No. 1,420,940; June 27.
Diestock. J. Konigsberg. No. 1,420,847; June 27.
Differential mechanism. I. Hupp. No. 1,420,706; June 27.
Digger: *See*—
Beet digger.
Dish handle. R. Hubachek. No. 1,421,235; June 27.
Disinfecting sanitary pans, Means for. H. Bradley. No. 1,421,348; June 27.
Disk wheel. G. H. Forsyth. No. 1,420,651; June 27.
Dispenser. G. Parker and C. J. Daraban. No. 1,421,300; June 27.
Ditching machine. J. Sommer. No. 1,420,876; June 27.
Diving bell. M. A. White. No. 1,421,332; June 27.
Diving suit. E. J. Valeur. No. 1,420,640; June 27.
Door-operating mechanism. F. W. Crosby. No. 1,421,177; June 27.
Door-operating mechanism. W. F. Hagen. No. 1,421,002; June 27.
Drawbar. G. N., A. M., and W. H. Simpson. No. 1,421,032; June 27.
Drawing and lapping press. R. S. Smith and H. Miller. No. 1,421,035; June 27.
Drier: *See*—
Centrifugal drier.
Driers, Looping device for. H. Bogaty. No. 1,421,153; June 27.
Drilling machine, Track-. E. A. Everett. No. 1,421,194; June 27.
Drinking fountain. C. F. Owen. No. 1,421,296; June 27.
Driving and stopping mechanism. R. C. Pierce. No. 1,420,744; June 27.
Driving box. L. G. Sampson. No. 1,421,101; June 27.
Driving-box lubricator. A. T. Kuehner. No. 1,421,258; June 27.
Driving mechanism. G. R. Walker. No. 1,420,793; June 27.
Dumping apparatus. G. W. McGlauflin. No. 1,420,856; June 27.
Dust collector. H. F. Bickel and B. J. Minnier. No. 1,420,954; June 27.
Dust separator, Centrifugal. J. W. Newcombe. No. 1,420,665; June 27.
Electric boiler. H. E. Cohen. No. 1,420,693; June 27.
Electric conductors, Clamp device for. T. Varney. No. 1,420,790; June 27.

Electric conductors, Connection for. A. G. Karkau. No. 1,420,846; June 27.
Electric furnace. S. N. Castle. No. 1,420,687; June 27.
Electric furnace. R. A. Driscoll. No. 1,421,185; June 27.
Electric machines, Apparatus for regulating the voltage of dynamo-. A. J. Jullin. No. 1,421,246; June 27.
Electric regulation. J. L. Creveling. Nos. 1,420,817-20; June 27.
Electric regulation. J. L. Creveling. No. 1,421,069; June 27.
Electric switch attachment. M. C. Frank. No. 1,420,829; June 27.
Electric switch, Automatic. H. and O. Lucas and H. W. F. Ireland. No. 1,420,935; June 27.
Electric time switch. N. Abramson. No. 1,420,902; June 27.
Electrical controller. R. B. Hunter. No. 1,420,842; June 27.
Electrical drink mixer. F. A. Stainbrook. No. 1,420,773; June 27.
Electrical drink mixer. F. A. Stainbrook. No. 1,420,774; June 27.
Electrical resistance material, Manufacturing. F. Eichenberger. No. 1,420,980; June 27.
Electromagnet. S. M. Lucas. No. 1,421,269; June 27.
Elevator doors, Safety lock for. B. C. Van Emon and W. A. Wolf. No. 1,421,043; June 27.
Embossing and printing apparatus. G. F. Seitz. No. 1,420,765; June 27.
Engine: *See*—
Internal-combustion engine.
Engine. H. B. King. No. 1,421,254; June 27
Engines, Auxiliary air inlet for internal combustion. F. O. Alton. No. 1,421,135; June 27.
Engines, Fuel-mixing device for internal-combustion. O. M. Mundale. No. 1,420,732; June 27.
Engines, Intake manifold for internal-combustion. C. H. Hallauer. No. 1,420,922; June 27.
Engines, Magneto ignition system for internal-combustion. J. L. Milton. No. 1,421,286; June 27.
Engines, Radiator for explosion. E. Harter. No. 1,421,221; June 27.
Engines, Radiator for explosive. C. F. Spery. No. 1,420,878; June 27.
Engines, Scavenging device for combustion. J. C. M. Maclagan. No. 1,421,273; June 27.
Engraver's clamp. C. E. Linnig. No. 1,420,715; June 27.
Envelope. H. Heading. No. 1,421,227; June 27.
Envelope or double envelope, Two-fold. J. Ikeda and M. Miura. No. 1,421,240; June 27.
Evaporating apparatus. C. R. Mabee. No. 1,420,645; June 27.
Evaporation. C. R. Mabee. No. 1,420,641; June 27.
Excavating apparatus and drag bucket. J. C. Mundy and H. T. Wilson. No 1,420,733; June 27.
Explosive containers, Filling high-. J. P. Madden and L. Fisher. No. 1,420,637; June 27.
Express and parcel-post shipping rates, Guide showing comparative. C. W. Flint. No. 1,420,828; June 27.
Extension handle. J. W. Bate. No. 1,420,809; June 27.
Facings, Making friction. F. C. Stanley. No. 1,420,882; June 27.
Feed receptacle, Animal. S. Asaturian. No. 1,421,142; June 27.
Ferromanganese, Melting. J. H. Hall and R. D. Jordan. No. 1,421,218; June 27.
Filling device and indicator. H. Custer. No. 1,420,624; June 27.
Films, Producing color. K. Warga. No. 1,420,673; June 27.
Filter and producing same. R. Zsigmondy and W. Bachmann. No. 1,421,341; June 27.
Fire door or shutter. A. S. Barrows. No. 1,421,146; June 27.
Fireproof lock box. C. G. Bennet. No. 1,421,150; June 27.
Fish meal, Apparatus for producing. E. T. Meakin. No. 1,421,283; June 27.
Fishing reels, Antibacklash attachment for. W. L. Adams. No. 1,420,804; June 27.
Flashlight. L. C. Matson. No. 1,421,093; June 27.
Floor-forming form. R. E. Richmond. No. 1,420,863; June 27.
Flooring material and making same. R. Jeschke. No. 1,421,086; June 27.
Flowerpot or bouquet holder. T. C. Waters. No. 1,421,327; June 27.
Fluid-mixing device. W. W. Cummings. No. 1,421,130; June 27.
Flying machine. G. Caproni. No. 1,420,620; June 27.
Folding seat. A. Carlson. No. 1,421,167; June 27.
Food chopper. P. Liebelt. No. 1,420,933; June 27.
Food product. S. Luft. No. 1,420,661; June 27.
Forming die. C. G. Cornell, Jr. No. 1,420,970; June 27.
Foundry operations, Independent zone plan for continuous. C. K. Prince. No. 1,421,305; June 27.
Fountain: *See*—
Drinking fountain.
Frame: *See*—
Motor-cycle frame. Picture frame.
Fruit cutter. C. F. Garman. No. 1,421,207; June 27.
Fruit jar, etc. C. W. Thompson. No. 1,420,892; June 27.
Fruit-marking machine, Electric. L. Neuenschwander. No. 1,421,292; June 27.
Fruit pitter. R. B. Wilcox. No. 1,421,333; June 27.
Fuel-feed device, Vacuum. J. C. Coulombe. No. 1,421,067; June 27.
Fuel, Gaseous. E. A. Charbonneaux. No. 1,420,622; June 27.
Fuels, Plant for utilizing pulverized solid. A. Assereto and L. Caccioppoli. No. 1,420,904; June 27.
Furnace: *See*—
Electric furnace. Retort furnace.
Furnaces, Air heater for. W. F. Keenan, Jr. No. 1,421,247; June 27.
Furnaces, Regenerator for smelting. P. Kühn. No. 1,421,259; June 27.
Fuses, Indicator for renewable. M. J. West. No. 1,421,051; June 27.
Garment hanger. W. N. Hartzell and H. A. Weiss. No. 1,421,003; June 27.
Garment hanger. E. Sutton and S. M. Ward. No. 1,420,890; June 27.
Garment presser, Electrically-heated. B. W. Macy. No. 1,420,636; June 27.
Garment supporter. H. V. Clausen. No. 1,421,171; June 27.
Gas-controlling device, Automatic. E. A. T. Holden. No. 1,420,702; June 27.
Gas heater. C. E. Epworth. No. 1,421,190; June 27.
Gas meter. E. E. W. Anderson. No. 1,421,138; June 27.
Gas meter. M. Anninger. No. 1,421,140; June 27.
Gases, Apparatus for removing suspended matter from. J. P. Fisher. No. 1,420,986; June 27.
Gate. H. Langeberg. No. 1,420,932; June 27.
Gate opening and closing mechanism. L. Johnson. No. 1,421,088; June 27.
Gauge: *See*—
Compensating gauge. Hole gauge.
Gauging articles, Projection apparatus for. F. Twyman. No. 1,421,042; June 27.
Gear-cutting machine. L. A. Woodard and H. H. Talbot. No. 1,421,116; June 27.
Gem. H. H. Welch. No. 1,421,329; June 27.
Gem setting. J. Zalowitz. No. 1,421,339; June 27.
Glass-cylinder cutter. J. R. Scohy. No. 1,420,867; June 27.
Glass-drawing apparatus and drawing glass, Sheet-. J. R. Scohy. No. 1,420,868; June 27.
Glass manufacture. R. Good. No. 1,421,124; June 27.
Glass, Method of and apparatus for the manufacture of. R. Good. No. 1,421,210; June 27.
Glove, Baseball. R. Raymond. No. 1,421,308; June 27.
Goggles, Bright and black. L. W. Bugbee. No. 1,420,964; June 27.
Golf club. C. H. Rodwell. No. 1,420,946; June 27.
Golf-stroke counter. A. Deichmann. No. 1,421,070; June 27.
Grain conveyer. J. W. Montague and V. G. Patrick. No. 1,420,726; June 27.
Granules, Coated. C. P. McNeil. No. 1,421,271; June 27.
Grapple. C. H. Brown. No. 1,421,159; June 27.
Grinding or polishing machines, Work holding and feeding device for. R. W. Fuller. No. 1,421,205; June 27.
Grip, Handle. R. H. Phillips. No. 1,421,098; June 27.
Gun, Centrifugal. L. W. Lombard. No. 1,420,660; June 27.
Hair-cutting machine. E. B. Powell. No. 1,421,350; June 27.
Hand or arm amputated persons, Working claw for. A. Thiele. No. 1,421,322; June 27.
Handle: *See*—
Casket handle. Extension handle.
Dish handle.
Handle. F. L. Lindhorst. No. 1,420,851; June 27.
Hanger: *See*—
Garment hanger.
Harrow, Soil or turf renovating brush. B. B. Brook. No. 1,421,060; June 27.
Harrow, Tandem disk. C. E. Ward and F. W. Harris. No. 1,421,048; June 27.
Harrows, Shifting mechanism for disk. C. E. Ward. No. 1,421,047; June 27.
Harvester thrashers, Straw spreader for. E. H. Linscheid. No. 1,420,716; June 27.
Hat and umbrella holder. J. M. Thomas. No. 1,420,891; June 27.
Hat shield or pad. W. J. Anderson. No. 1,421,139; June 27.
Hay carrier. G. Scheihing. No. 1,421,102; June 27.
Haystacker. C. C. Cope. No. 1,421,175; June 27.
Heat motor. W. J. H. Strong. No. 1,420,672; June 27.
Heater: *See*—
Alcohol heater. Gas heater.
Automobile heater. Water heater.
Heating cor., Electric. W. W. Hicks. No. 1,421,084; June 27.
Hoist. J. Ditson. No. 1,421,183; June 27.
Hole gauge. M. Bartholdy. No. 1,420,951; June 27.
Hook: *See*—
Latching hook. Tire-chain hook.
Hook. C. Marona and B. Villiott. No. 1,420,724; June 27.
Horny materials, Manufacture of articles of. E. Norzi. No. 1,421,095; June 27.
Hose supporter clasp. I. Brown. No. 1,421,061; June 27.
Hose supporters, Loop for. J. F. Hartnett. No. 1,421,222; June 27.
House boats and means for propelling the same, Scow or float for. G. C. Hawley. No. 1,421,226; June 27.
House construction. L. Brandt. No. 1,421,124; June 27.

Hydrocarbon fuel, Burner for liquid. F. P. Schmitt. No. 1,421,031; June 27.
Ice, Method and apparatus for scoring. M. J. Uline. No. 1,420,788; June 27.
Illuminating appliance. W. A. Dorey. No. 1,420,977; June 27.
Impaling pin, Consecutive-order-. F. T. Loftin. No. 1,420,717; June 27.
Implement, Holding. H. T. Inghram. No. 1,420,925; June 27.
Incubator. V. C. Getz. No. 1,421,075; June 27.
Indicator: *See*
Traffic indicator. Valve-leak indicator.
Ink from printed paper, Removing. H. R. Eyrich and J. A. Schreiber. No. 1,421,195; June 27.
Inking rollers, Apparatus for forming. L. La Tour and A. F. Munnell. No. 1,420,849; June 27.
Inner-tube protector. W. C. Guild. No. 1,420,655; June 27.
Insecticide and making same. H. H. Dow. No. 1,420,978; June 27.
Insulation and like structures, Apparatus for building up laminate. C. W. Davis and W. S. Brown. No. 1,420,911; June 27.
Internal-combustion engine, Cooling. G. Bradshaw. No. 1,420,684; June 27.
Iron: *See*—
Curling iron.
Jack: *See*—
Lift jack.
Jewelry. C. G. Wetzel. No. 1,420,897; June 27.
Joint: *See*—
Knee joint. Pipe joint.
Joint and making the same, Universal. M. L. Emet. No. 1,421,072; June 27.
Key placing and removing tool. H. L. Berman. No. 1,421,152; June 27.
Keyboard tape perforator. E. E. Kleinschmidt. No. 1,420,931; June 27.
Kiln: *See*—
Tunnel kiln.
Knee joint, Artificial. A. Habermann. No. 1,421,216; June 27.
Knife blanks, Machine for serrating. G. T. Thatcher. No. 1,420,786; June 27.
Lacing device, Shoe-. P. M. Nelson. No. 1,421,291; June 27.
Lamp bulbs, Manufacture of hollow glass bodies particularly for electric glow-. E. Frank. No. 1,420,996; June 27.
Lamp, Electric. E. G. Mascarenhas. No. 1,421,276; June 27.
Lamp for internal-combustion engines, Starting. H. Brooks. No. 1,421,158; June 27.
Lamp socket. D. E. Bown. No. 1,421,122; June 27.
Lamp, Vehicle. H. Peyton. No. 1,420,741; June 27.
Lantern construction. H. Barkschat. No. 1,421,058; June 27.
Lapping machine. J. R. Ricketts. No. 1,420,751; June 27.
Latching hook. D. W. Davis. No. 1,420,912; June 27.
Lathe. F. S. Flocter. No. 1,420,987; June 27.
Lathe attachment. J. Waitch. No. 1,421,324; June 27.
Lathes, Change-speed wheel gear for. K. and A. H. Olsson. No. 1,420,939; June 27.
Lens guard and dimmer. J. M. Larson and J. F. Sievers. No. 1,420,848; June 27.
Lever, Eccentric. A. Anderson. No. 1,421,136; June 27.
Lever lock. O. Miller. No. 1,421,021; June 27.
Lift jack. J. Fürst. No. 1,420,831; June 27.
Lifter: *See*—
Pipe lifter.
Light: *See*—
Flash light.
Lighting fixture. F. C. Baker. No. 1,420,806; June 27.
Liquid-agitating mechanism. F. M. Slough. No. 1,420,767; June 27.
Liquid meter. P. J. Roach and D. Carter. No. 1,420,752; June 27.
Liquid substances to change the condition thereof by evaporation, Treating. C. R. Mabee. No. 1,420,643; June 27.
Liquid substances, Treating. C. R. Mabee. No. 1,420,644; June 27.
Liquid substances, Treating. C. R. Mabee. No. 1,420,646; June 27.
Liquids and charging the same with gas by the use of snowlike carbonic anhydride, Cooling. V. Crémieu. No. 1,421,176; June 27.
Liquids and in the drying of substances, Device for the evaporation of. C. R. Mabee. No. 1,420,649; June 27.
Loading machine. F. Billings and R. P. Greenleaf. No. 1,420,681; June 27.
Lock: *See*—
Automobile lock. Nut lock.
Clutch control lock. Permutation lock.
Lever lock.
Lock. A. Ferrara. No. 1,421,197; June 27.
Lock. E. Long. No. 1,420,853; June 27.
Lock. R. Schoell. No. 1,420,760; June 27.
Lock. J. Slaibelle. No. 1,421,316; June 27.
Locking device. A. R. Collier. No. 1,420,910; June 27.
Locking device. M. A. Johnson. No. 1,420,926; June 27.
Locomotive arch brick. W. Schuttler. No. 1,420,764; June 27.
Locomotive curtain. A. C. Olson. No. 1,421,293; June 27.
Loom, Automatic filling-replenishing. H. W. Youngquist. No. 1,420,901; June 27.
Looms, Let-off motion for. S. Ingham. No. 1,421,241; June 27.
Looms, Picker-stick check for. W. F. Clayton. No. 1,421,172; June 27.
Looms, Tight pulley for. E. D. Roy and E. W. Hudson. No. 1,421,100; June 27.
Lubricator: *See*
Driving-box lubricator.
Lumber-joining machine. G. H. Dickerson and A. Vanderveld. No. 1,420,976; June 27.
Machine element. P. E. Henninger. No. 1,421,231; June 27.
Machines having air separators, Automatic feed regulator for. P. J. Gagnon, Jr. No. 1,421,343; June 27.
Machinery and other apparatus, Plant for the manufacture of. W. H. Morgan. No. 1,420,730; June 27.
Machining work pieces, Apparatus for. F. E. Bright. No. 1,420,683; June 27.
Manifold. H. T. Smith. No. 1,421,034; June 27.
Mattress. H. J. Malerstein. No. 1,421,274; June 27.
Mattress. W. J. Rimmington. No. 1,421,028; June 27.
Mechanical motion. S. W. Wardwell. No. 1,421,049; June 27.
Medicinal compound. J. A. Klein. No. 1,420,634; June 27.
Metal article, Protected. J. H. Young. No. 1,421,338; June 27.
Metal-bending tool. E. A. Mull. No. 1,420,731; June 27.
Metal mold. C. J. Amick. No. 1,420,903; June 27.
Metal plates or other like articles, Machine for indenting characters on. C. F. Gaunt. No. 1,421,074; June 27.
Meter: *See*—
Audibility meter. Liquid meter.
Gas meter.
Micrometer, Tool-adjusting. G. T. Furness and L. R. Senn. No. 1,421,073; June 27.
Middy blouse. A. G. Winchester. No. 1,421,053; June 27.
Milk-bottle carrier. E. M. Knudson. No. 1,421,257; June 27.
Milk-can tops, Lock for. G. S. Brewster. No. 1,420,811; June 27.
Mill: *See*—
Coffee mill.
Milling machine, Circular. H. C. Rose. No. 1,421,030; June 27.
Mixer: *See*—
Amalgam mixer. Electrical drink mixer.
Concrete mixer.
Mixing machine, Bituminous. J. H. Ryan. No. 1,421,757; June 27.
Mold: *See*—
Block mold. Metal mold.
Molds, Coating. A. D. Straw. No. 1,420,888; June 27.
Mop head and fastener therefor. H. M. Sturgis. No. 1,420,639; June 27.
Mop, Wringer. W. Dupré. No. 1,421,071; June 27.
Mop wringer. L. V., O. F., and J. B. Shannon. No. 1,420,872; June 27.
Motion, Reverse. C. E. Burrows. No. 1,421,163; June 27.
Motor: *See*—
Heat motor.
Motor. C. Savino. No. 1,420,864; June 27.
Motor-cycle frame. R. L. Notman. No. 1,420,638; June 27.
Multiple-effect apparatus. C. R. Mabee. No. 1,420,648; June 27.
Musical instrument, Stringed. B. Szyslak. No. 1,420,784; June 27.
Needle-bar for full-fashioned machines. C. F. Meyer. No. 1,420,857; June 27.
Needle holder and magazine, Crochet-. P. Till. No. 1,420,893; June 27.
Nonskid chains, Attaching device for. G. Staples. No. 1,420,778; June 27.
Nut lock. W. J. Chism. No. 1,421,127; June 27.
Nut lock. N. A. Palmgren. No. 1,420,737; June 27.
Nut, Safety. G. L. Larson. No. 1,421,090; June 27.
Oil-bearing shale, Apparatus for treating. G. A. Heimbucher. No. 1,421,228; June 27.
Oil burner for lighting and heating, Wickless. D. Guelbaum. No. 1,421,215; June 27.
Oil-burning apparatus. J. A. Bishop. No. 1,420,957; June 27.
Oil-transfer device. A. D. Stern. No. 1,421,319; June 27.
Oils, Cracking. R. D. George. No. 1,420,832; June 27.
Oils, Purifier for lubricating. E. E. Hans. No. 1,420,837; June 27.
Ophthalmometers, Accessory for. H. Clement. No. 1,421,173; June 27.
Ordnance firing mechanism. A. T. Dawson and G. T. Buckham. No. 1,420,972; June 27.
Ore concentrator. R. Le Roy. No. 1,421,264; June 27.
Ore jig. F. De Mier. No. 1,420,975; June 27.
Oven-heat regulator. B. E. Meacham. No. 1,421,281; June 27.
Ozonizing fluids, Apparatus for. S. Held. No. 1,420,838; June 27.
Packing for glands, stuffing boxes, and the like. F. G. Denton and M. Angus. No. 1,421,356; June 27.

Paper clasp. J. W. Grant. No. 1,420,654; June 27.
Paper cups, Machine for making. C. S. Batdorf. No. 1,420,808; June 27.
Paper machine. F. O. Scott. No. 1,420,869; June 27.
Paper-ruling machines, Drier for. J. H. Cannon. No. 1,421,166; June 27.
Pencil holder, Refillable. W. J. Myatt. No. 1,420,938; June 27.
Pencil sharpener. C. A. Burdick. No. 1,421,063; June 27.
Pendant switch. D. Hjorth. No. 1,421,085; June 27.
Perfume dispenser and container. G. W. Button and M. Sicrad. No. 1,420,965; June 27.
Permutation lock. J. Markus and L. Thomas. No. 1,420,723; June 27.
Phonograph. S. J. Rognlie. No. 1,420,668; June 27.
Phonographs, Picture-display attachments for. T. D. Jones and J. H. Barr. No. 1,420,928; June 27.
Phosphorus from vanadium solutions, Removing. A. N. Erickson. No. 1,421,191; June 27.
Photographic and like purposes, Objective for. L. B. Booth. No. 1,421,156; June 27.
Photographic-developing apparatus. J. S. Greene. No. 1,421,079; June 27.
Photographic developing, etc., Time gauge for. H. A. Masac. No. 1,421,275; June 27.
Picture frame. A. Petrow. No. 1,421,301; June 27.
Pictures, Envelope and frame for. W. Pente. No. 1,421,097; June 27.
Pigment and producing the same. P. Fireman. No. 1,420,985; June 27.
Pigments, Making binders for. H. A. Buck. No. 1,421,125; June 27.
Pin: *See*—
Impaling pin. Safety pin.
Pin. G. G. Speck. No. 1,421,037; June 27.
Pipe joint. J. Schütte. No. 1,420,669; June 27.
Pipe joint. J. Schuette. Nos. 1,420,670–1; June 27.
Pipe lifter. J. P. Cassidy. No. 1,420,621; June 27.
Pipe wrench. C. L. Anderson and J. T. Smith. No. 1,421,137; June 27.
Piston. C. Losch. No. 1,420,934; June 27.
Piston ring. J. W. Ford. No. 1,421,202; June 27.
Piston ring. F. M. Osborne. No. 1,421,295; June 27.
Piston rings, Making. J. W. Ford. No. 1,41,203; June 27.
Planter, Corn. C. D. Harness and C. D. Bradshaw. No. 1,420,923; June 27.
Player roll. O. Peterson. No. 1,420,860; June 27.
Pliers. F. T. Foehl. No. 1,420,988; June 27.
Pliers. F. J. Moran and W. A. Peck. No. 1,420,729; June 27.
Plow. W. D. Knight. No. 1,421,011; June 27.
Plow, Conduit. W. H. Kempton. No. 1,421,250; June 27.
Plow, Ridging. B. C. Thomson. No. 1,421,109; June 27.
Plug, Closure. F. C. Williams. No. 1,420,899; June 27.
Plunger drum. A. Johnson. No. 1,420,844; June 27.
Pneumatic-action unit. S. Battner. No. 1,420,678; June 27.
Post: *See*—
Binding post.
Post step or bracket. J. N. Duncan. No. 1,420,825; June 27.
Potato cutter. P. Israelson. No. 1,420,843; June 27.
Power take-off. D. H. Gruver. No. 1,421,214; June 27.
Preparation of a metallic jointing compound. H. Burrows. No. 1,420,908; June 27.
Preserving comestibles. P. W. Petersen. No. 1,420,739; June 27.
Preserving comestibles. P. W. Petersen. No. 1,420,740; June 27.
Press: *See*—
Continuous press.
Propeller-controlling mechanism. R. W. Barton. No. 1,420,619; June 27.
Puller: *See*—
Stump puller.
Pulley, Window. J. F. Sharpless, Jr. No. 1,420,873; June 27.
Pump drive apparatus. H. O. Baker. No. 1,420,807; June 27.
Pump, Removable deep-well. O. B. Kibele. No. 1,421,253; June 27.
Pump stop, Automatic. H. L. Smith. No. 1,420,769; June 27.
Pump, Well. H. H. Hibbard. No. 1,421,004; June 27.
Radiator. G. E. Elliott. No. 1,420,917; June 27.
Radiator shutter, Rolling. S. R. Collingwood. No. 1,421,174; June 27.
Radiators, Shield for motor. E. J. Askren, J. F. Worman, and C. F. Zwick. No. 1,421,120; June 27.
Rail, Integral guard. V. Angerer. No. 1,421,342; June 27.
Rail-supporting structure. W. P. Day. No. 1,420,974; June 27.
Railway signaling apparatus. J. W. Kennedy. No. 1,421,252; June 27.
Railway tie. S. Rapp. No. 1,420,749; June 27.
Range finder, Short-base. H. D. Taylor. No. 1,421,321; June 27.
Ranging a rapidly-moving object and apparatus therefor. F. H. de Brüine. No. 1,420,913; June 27.
Razor-honing device. G. Gutekunst and C. Mag. No. 1,420,656; June 27.
Razor, Rotary. J. H. Philp. No. 1,420,943; June 27.
Receptacle. B. M. Beskow. No. 1,420,906; June 27.
Receptacle-transferring device. E. W. Morter. No. 1,420,936; June 27.
Rectifier. H. P. Donle. No. 1,420,824; June 27.
Reeds into slats or strips, Machine for the transformation of. P. de Guardia-Calmètes. No. 1,420,914; June 27.
Refrigerator. W. K. Knutson. No. 1,420,711; June 27.
Regulating system. A. H. Candee. No. 1,421,165; June 27.
Regulator: *See*—
Oven-heat regulator. Window regulator.
Relay. P. MacGahan. No. 1,421,272; June 27.
Retort-bottom-bending device. E. V. Quinn and D. Gallup. No. 1,420,747; June 27.
Retort furnace. T. R. Blanchard and E. B. Kenefic. No. 1,420,958; June 27.
Reversing machine. M. A. Sidwell. No. 1,421,104; June 27.
Reversing mechanism. A. M. Goodwin. No. 1,421,213; June 27.
Ribbon feeding and reversing mechanism. M. G. Standley and C. E. Poe. No. 1,420,881; June 27.
Rim breaker. J. R. Supple. No. 1,420,781; June 27.
Rim tool. W. H. Buttram. No. 1,420,813; June 27.
Rim tool. S. Johnson. No. 1,420,927; June 27.
Ring: *See*—
Piston ring.
Rivet-feeding mechanism. A. F. Renaud. No. 1,421,310; June 27.
Road machine. M. A. Esty. No. 1,421,981; June 27.
Roof. G. E. Swenson. No. 1,421,040; June 27.
Rope, Tow. A. L. Regan. No. 1,420,026; June 27.
Rotary motion into reciprocating motion, Mechanism for converting. T. W. Fernholtz. No. 1,420,826; June 27.
Roundabout, Gyratory. E. Kohler. No. 1,421,013; June 27.
Roving frames, Flier for. L. W. Campbell. No. 1,420,966; June 27.
Rubber or other plastic material, Machine for treating. D. R. Bowen and C. F. Schnuck. No. 1,420,959; June 27.
Safety appliance. L. G. Sweningston. No. 1,421,039; June 27.
Safety pin. S. E. Bentley. No. 1,420,952; June 27.
Sanding, abrading, and polishing machine, Portable. M. N. Prange. No. 1,421,303; June 27.
Sanitary closet. E. J. Owen. No. 1,421,297; June 27.
Saw, Dado. F. E. White. No. 1,421,052; June 27.
Sawing machine, Wood-. J. E. Elder. No. 1,420,950; June 27.
Sawmill carriage. M. E. Brady. No. 1,420,961; June 27.
Scoop board. C. Woods. No. 1,421,336; June 27.
Scraper. O. Fike. No. 1,420,919; June 27.
Screen or grizzly, Revolving. H. K. Burch. No. 1,420,685; June 27.
Screw threads, Projection apparatus for gauging. A. C. Banfield. No. 1,421,057; June 27.
Scrubbing device. H. C. Pittinger. No. 1,421,302; June 27.
Seat: *See*—
Folding seat.
Separator: *See*—
Dust separator.
Separator and evaporator, Centrifugal. C. R. Mabee. No. 1,420,642; June 27.
Sheet machines, Mechanical sheet stop for smut-. J. E. Gilbert and G. W. Harris. No. 1,420,653; June 27.
Shoe box, Trunk. J. P. Gibson. No. 1,420,920; June 27.
Shoes, etc., Stapling device for. J. M. Levinson. No. 1,421,265; June 27.
Shoes, Making. S. C. Wilson. No. 1,421,347; June 27.
Sieve. W. J. Johnson. No. 1,421,245; June 27.
Sign. E. P. Vincent. No. 1,421,044; June 27.
Sign, Advertising. N. Mollet. No. 1,421,022; June 27.
Signal: *See*—
Automobile signal.
Signal. M. B. Armitage. No. 1,421,141; June 27.
Signal apparatus from false colored signals, Method and apparatus for protecting. C. H. Kelsea. No. 1,421,249; June 27.
Signal flag. W. D. Carrington. No. 1,420,967; June 27.
Signaling apparatus. J. W. Kennedy. No. 1,421,251; June 27.
Skate-sharpener clamp. C. Rutstrum. No. 1,420,756; June 27.
Skylight ventilator. P. Bologh. No. 1,421,154; June 27.
Smoke consumer. L. K. Flanagan. No. 1,421,200; June 27.
Snowplow. M. Haupt. No. 1,421,225; June 27.
Sound amplifier. W. F. Lubnow. No. 1,420,719; June 27.
Sound records, Recording. H. L. Wadsworth. No. 1,421,045; June 27.
Spark-plug cleaner. W. F. Hagen. No. 1,421,001; June 27.
Speed, time, and quantity recording instrument. H. Galopin. No. 1,421,352; June 27.
Speedometer, Audible. J. E. Kennedy. No. 1,420,633; June 27.
Spiritualistic communication apparatus. S. A. Bisey. No. 1,420,956; June 27.
Spool and needle case. S. A. Reed. No. 1,421,099; June 27.
Sprayer. J. M. Stocker. No. 1,421,038; June 27.

Spraying head, Rotary. J. C. MacLachlan. No. 1,420,722; June 27.
Spring suspension. H. W. Bell and H. L. Hoyt, Jr. No. 1,420,680; June 27.
Spring wheel. G. M. Henrie. No. 1,420,839; June 27.
Stacking tote box. A. F. Erickson. No. 1,420,992; June 27.
Stamping device. J. A. Campbell. No. 1,420,686; June 27.
Stand: *See*—
Christmas-tree stand.
Starting switch, Motor-. H. L. Van Valkenburg. No. 1,420,789; June 27.
Steam trap. C. E. Lowell. No. 1,420,718; June 27.
Steel cutter, Sheet. F. M. Joslin. No. 1,420,929. June 27.
Steering wheels, Locking device for. H. C. Miller. No. 1,421,020; June 27.
Step plate. F. H. Stanwood. No. 1,420,776; June 27.
Stirrup. W. T. Prater. No. 1,421,304; June 27.
Stock-handling mechanism. F. J. Littell. No. 1,421,354; June 27.
Stopper: *See*—
Bottle stopper.
Storage battery, Electric. E. Hacking. No. 1,421,217; June 27.
Storm and glare shield. H. Dickinson. No. 1,421,182; June 27.
Stove. P. H. Hohman and E. E. Innis. No. 1,421,233; June 27.
Stove, Cook. L. B. de Laitte. No. 1,420,688; June 27.
Stove, Hot-blast. F. E. Kling. No. 1,421,256; June 27.
Strap: *See*—
Binding strap.
Stretcher. T. Robson. No. 1,420,945; June 27.
Stretcher with compressible grips for rationally developing the human physical strength, Spring. M. C. Fidora. No. 1,421,198; June 27.
Stump puller. J. W. Nissrod. No. 1,420,736; June 27.
Stumps, Harvesting. E. A. McKoy and G. D. Moore. (Reissue.) No. 15,394; June 27.
Subgrading machine. C. J. Hug. No. 1,421,237; June 27.
Substances in a finely-divided condition, Apparatus for treating. P. Poore. No. 1,420,944; June 27.
Sulphur burner. A. G. Hinzke. No. 1,421,232; June 27.
Support. E. D. Angell. No. 1,420,676; June 27.
Suspender clip. P. Pugniet. No. 1,420,746; June 27.
Swab and valve for wells, Combined. B. F. Kelley. No. 1,421,248; June 27.
Sweatband for straw and other hats. J. T. Dowdall. No. 1,420,690; June 27.
Sweatband, Hat. J. T. Dowdall. No. 1,420,689; June 27.
Swing. W. M. Thomas. No. 1,420,787; June 27.
Switch: *See*—
Electric switch.
Electric time switch.
Motor-starting switch.
Pendant switch.
Switch. E. C. Findley. No. 1,420,984; June 27.
Switch box. W. M. Gore. No. 1,420,694; June 27.
Tank: *See*—
Automobile emergency tank.
Tanks, Submerged heater for. J. G. Sawicki. No. 1,420,759; June 27.
Teapot. A. F. Saunders. No. 1,420,758; June 27.
Teledynamic orientation system. J. H. Hammond, Jr. No. 1,420,629; June 27.
Telephone. M. C. A. Latour. No. 1,421,015; June 27.
Temperature regulator. K. Dougan. No. 1,420,916; June 27.
Thermostat. E. B. Lennig. No. 1,420,659; June 27.
Threads, Machine for splicing up the ends of cotton, linen, and other. A. Bennett. No. 1,421,151; June 27.
Tie: *See*—
Railway tie.
Tire. M. A. Volf. No. 1,421,323; June 27.
Tire and puncture-proof protector therefor. E. Ehlich. No. 1,420,979; June 27.
Tire casings, Making. F. B. Converse. No. 1,420,623; June 27.
Tire-chain holder. G. Staples. No. 1,420,777; June 27.
Tire-chain hook. J. L. Schindler. No. 1,420,949; June 27.
Tire construction. G. R. Williams. No. 1,421,115; June 27.
Tire, Cushion. C. O. Snedeker. No. 1,421,106; June 27.
Tire fabrics, Loom for weaving cord-. F. C. Hall. No. 1,421,081; June 27.
Tire flaps, Mold for heavy-truck. A. O. Abbott, Jr. No. 1,420,803; June 27.
Tire gauge and filling valve, Combined. A. A. Freeman. No. 1,420,997; June 27.
Tire-ply turn-up and prodder device. A. D. Kilgore. No. 1,420,930; June 27.
Tire, Resilient. A. V. Roe. No. 1,421,029; June 27.
Tire, Resilient. J. S. Williams. No. 1,420,674; June 27.
Tire tool. W. H. Waldroff. No. 1,420,792; June 27.
Tire-valve dust cap, Quick-detachable. C. H. Woodbury. No. 1,421,117; June 27.
Toilet article. J. Sims. No. 1,420,766; June 27.
Tool, Combination. A. J. Hart. No. 1,421,220; June 27.
Tool, Combination. R. A. Moore. No. 1,421,287; June 27.
Toothbrush. W. S. Field. No. 1,421,199; June 27.
Torch burner. O. J. Groehn. No. 1,420,696; June 27.
Torch burner, Wide-mouth. O. J. Groehn. No. 1,420,697; June 27.
Torch, Cutting. A. Godfrey. No. 1,420,921; June 27.
Torpedo, Railway signal. F. Dutcher. No. 1,421,188; June 27.
Torpedoes, Explosive tablet for railway signal. F. Dutcher. No. 1,421,187; June 27.
Toy. W. A. Browne. No. 1,421,161; June 27.
Toy. M. B. Houghton. No. 1,421,234; June 27.
Toy aeroplane. A. D. Bachr. No. 1,420,805; June 27.
Toy building block. A. C. Rader. No. 1,420,748; June 27.
Toy gun. B. T. Williams. No. 1,421,334; June 27.
Traction wheel. A. Scotti. No. 1,420,871; June 27.
Tractor. J. I. McMullen. No. 1,421,270; June 27.
Tractor gearing. J. B. Foote and G. T. Strite. No. 1,420,995; June 27.
Tractor lug. M. Kretchmer. No. 1,420,712; June 27.
Tractor wheel. A. Scotti. No. 1,420,870; June 27.
Tractors, Driving attachment for. D. H. Gilson. No. 1,421,076; June 27.
Traffic indicator. R. N. Ribler. No. 1,420,750; June 27.
Train-control system, Automatic. W. K. Howe. No. 1,421,005; June 27.
Train stop, Automatic. H. C. Graham. No. 1,421,078; June 27.
Transformer. W. Fondiller. No. 1,420,989; June 27.
Transmission mechanism, Hydraulic. W. S. Weston. No. 1,420,798; June 27.
Trap: *See*—
Animal trap.
Steam trap.
Trap. E. T. Dinkins. No. 1,420,823; June 27.
Trap. S. P. Paetta. No. 1,421,298; June 27.
Tread, Nonslipping. T. H. Stanwood. No. 1,420,775; June 27.
Treating substances, Apparatus for. C. R. Mabee. No. 1,420,647; June 27.
Tree protector. J. Paupa. No. 1,420,738; June 27.
Trolley-pole adjuster. A. Petersen. No. 1,420,859; June 27.
Trousers presser. D. D. Dewey and L. G. Sawdy. No. 1,420,822; June 27.
Truck brake or lock. J. O. Garrett. No. 1,420,999; June 27.
Truck, Laundry. G. C. Thuesen and E. C. Strickland. No. 1,421,110; June 27.
Truck, Motor. C. S. Schroeder. No. 1,420,762; June 27.
Trunk, Combination. W. Suski. No. 1,420,782; June 27.
Trunk, Wardrobe. S. Orenstein. No. 1,421,294; June 27.
Tube joints, Device for riveting. J. Shütte. No. 1,420,866; June 27.
Tunnel kiln. G. W. Booth. No. 1,421,155; June 27.
Turbine, Interchanger. H. N. Davis. No. 1,420,626; June 27.
Turbine, Internal-combustion. H. S. Johnson. No. 1,421,087; June 27.
Turning chips, Machine for reducing. R. Philipp. No. 1,420,742; June 27.
Turntable. E. R. Inman. No. 1,421,009; June 27.
Turntable, Exhibition. E. R. Inman. No. 1,421,008; June 27.
Typewriter. C. Gagliazzo. No. 1,420,998; June 27.
Typewriters, Ribbon attachment for. W. H. Sinclair. No. 1,420,874; June 27.
Typewriting machine. J. F. Allard. No. 1,421,134; June 27.
Typewriting machine. E. B. Hess and G. F. Handley. No. 1,421,083; June 27.
Undergarment. M. Moore. No. 1,420,728; June 27.
Underreamer. B. F. Fehlman. No. 1,420,918; June 27.
Vacuum liquid-supply system. E. A. Rockwell. No. 1,420,753; June 27.
Vacuum vessel. W. B. Walker and C. R. H. Visscher. No. 1,421,325; June 27.
Valve. G. L. Fish. No. 1,420,994; June 27.
Valve. J. D. Maxwell. No. 1,420,662; June 27.
Valve, Check. J. Dome. No. 1,421,184; June 27.
Valve construction. J. D. Maxwell. No. 1,420,663; June 27.
Valve for flush tanks, Automatic. R. L. Lash. No. 1,420,713; June 27.
Valve-leak indicator. M. J. Clausen. No. 1,420,909; June 27.
Valve mechanism. F. E. Acuff. No. 1,421,132; June 27.
Valve mechanism. J. Ardo. No. 1,421,119; June 27.
Valve, Nonreturn. J. D. Maxwell. No. 1,420,664; June 27.
Valve-refacing apparatus. F. O. Albertson. No. 1,421,133; June 27.
Valve-stem attachment. M. T. Willey. No. 1,420,898; June 27.
Valves, Machine for facing or dressing gate. F. A. B. P. Dexter and J. A. Stuard. No. 1,420,915; June 27.
Valves, Means for locking. S. F. Bashara. No. 1,421,059; June 27.
Vanity case, Combination. A. E. Rope. No. 1,421,311; June 27.
Variometer. J. S. E. Townsend. No. 1,421,041; June 27.
Vault, Burial. G. W. Killinger. No. 1,420,709; June 27.
Vehicle buffer device. G. A. Lyon. No. 1,420,855; June 27.
Vehicle, Child's. J. A. Walsburger. No. 1,421,046; June 27.
Vehicle, Combined land and water. A. Swencki. No. 1,420,783; June 27.
Vehicle, Manually-propelled. J. F. Wilkinson. No. 1,420,799; June 27.
Vehicle shock absorber. R. E. Hasemeier. No. 1,421,223; June 27.
Vehicle wheel. J. H. Clark. No. 1,421,128; June 27.
Vehicle wheel. A. L. Putnam. No. 1,420,862; June 27.

Vehicles, Arrangement for the instantaneous repairs of suspension springs of. F. R. G. Raynaud. No. 1,421,307; June 27.
Vehicles, Attachment for motor. E. W. Baxter. No. 1,421,147; June 27.
Vehicles, Locking means for motor. L. B. Wright. No. 1,421,054; June 27.
Vehicles, Testing machine for motor. C. B. Ginn. No. 1,421,000; June 27.
Velocipedes, Combined propelling and steering mechanism for. M. Wagner. No. 1,420,791; June 27.
Vending machine, Coin-controlled. H. Giles. Nos. 1,420,834–5; June 27.
Ventilator: *See*—
Skylight ventilator.
Vessels, Art of and apparatus for closures for containing. A. D. Smith. No. 1,420,875; June 27.
Vessels, Closure for containing. A. D. Smith. No. 1,420,768; June 27.
Vest, jacket, and the like. I. Abrams. No. 1,421,131; June 27.
Vibrator, Vacuum. J. G. Stephenson and F. W. Nuerwell. No. 1,420,884; June 27.
Vise, Quick-acting pipe. F. J. Callan. No. 1,421,065; June 27.
Vise slide. P. H. D. Walker. No. 1,421,112; June 27.
Voting apparatus. H. J. Sproat. No. 1,420,879; June 27.
Wagon seal. A. B. Sinha. No. 1,421,033; June 27.
Wall, Adjustable partition. M. Kotun. No. 1,421,089; June 27.
Wall, Building. H. W. Howell. No. 1,421,007; June 27.
Wall plugs from string or like material, Manufacture of tubular. J. J. Rawlings. No. 1,421,306; June 27.
Washboard. R. H. Miller. No. 1,421,094; June 27.
Washing machine. C. S. Adams. No. 1,421,055; June 27.
Washing machine. G. E. Brierly. No. 1,420,963; June 27.
Water heater. C. D. Bedwin. No. 1,421,149; June 27.
Water heater and steam generator, Electric. H. E. Cohen. No. 1,420,692; June 27.
Water heater, Portable. G. W. Hewitt. No. 1,420,840; June 27.
Webbing, Tip for. A. V. Brown. No. 1,420,812; June 27.
Wedge, Driving-box. J. Kindervater. No. 1,421,010; June 27.
Weeder and pulverizer. H. Hanson. No. 1,420,698; June 27.
Welding apparatus. W. McKee. No. 1,420,720; June 27.
Welding machine. T. E. Murray, Jr., and J. B. Murray. No. 1,420,735; June 27.
Wells, Rod and pipe grab for. F. A. and A. L. Loman and H. C. Dean. No. 1,421,266; June 27.
Wheel: *See*—
Disk wheel. Tractor wheel.
Spring wheel. Vehicle wheel.
Traction wheel.
Wheel rim, Demountable. K. I. Nutter. No. 1,421,096; June 27.
Wheels, Drive for steerable tractor. J. H. Pifer. No. 1,421,024; June 27.
Wheels of motor vehicles, Splash guard for the. F. J. Hundleby and H. M. Lawson. No. 1,421,239; June 27.
Wheels, Spring-supporting mechanism for spring. J. Hatfield. No. 1,421,224; June 27.
Windmill. R. A. Fullwood. No. 1,420,652; June 27.
Windmill. R. H. Yale, P. W. Hutchins, and K. Merting. No. 1,421,337; June 27.
Window cleaner. C. F. Mumaw. No. 1,420,937; June 27.
Window construction, Metal. F. Mesker and J. Beuc. No. 1,421,019; June 27.
Window regulator. G. W. Wells. No. 1,421,330; June 27.
Windows, Lock for slidable. E. P. Farum. No. 1,420,993; June 27.
Windshield, Tonneau. C. I. Decker. No. 1,421,181; June 27.
Wires, Container for electric. H. Charm. No. 1,421,168; June 27.
Wood-bending device. C. Duff. No. 1,421,186; June 27.
Woodworking machinery. L. Fritz. No. 1,421,204; June 27.
Work holder. A. B. Henderson. No. 1,421,230; June 27.
Wrapper. R. S. Reynolds. No. 1,421,027; June 27.
Wrench: *See*—
Pipe wrench.
Wrench. A. C. Klopper. No. 1,420,635; June 27.
Wrench. F. H. Ward. No. 1,420,795; June 27.
Wrench for shut-off valves or the like. K. Hoffman. No. 1,420,701; June 27.
Wringer: *See*—
Mop wringer.
Writing adding machine. H. A. Foothorap. No. 1,421,201; June 27.
Yeast and making the same, Dried. A. W. Hixson. No. 1,420,630; June 27.

ALPHABETICAL LIST OF DESIGNS.

Abdominal protector for boxers. M. Golomb. No. 61,135; June 27.
Bottle. J. H. Carmichael. No. 61,131; June 27.
Chains, Bead for ornamental neck. L. Gianera. No. 61,134; June 27.
Chandelier. T. E. Dahl. No. 61,132; June 27.
Doll. G. Beug. No. 61,130; June 27.
Doll, Smoking. M. H. Slater. No. 61,145; June 27.
Doll, Statue. J. G. Kaempfer. No. 61,139; June 27.
Headlight lens, Automobile. R. Haley. No. 61,136; June 27.
Incense burner. J. M. Lucas. No. 61,140; June 27.
Lamp, Desk. S. Dulczewski. No. 61,133; June 27.
Lighting fixture. F. K. Maerz. No. 61,141; June 27.
Lighting-fixture frame. F. K. Maerz. No. 61,142; June 27.
Monument. H. Platt. No. 61,144; June 27.
Padding. J. P. Hooper. No. 61,137; June 27.
Statuette. S. Jobin. No. 61,138; June 27.
Tire tread, Pneumatic. J. J. Moriarty. No. 61,143; June 27.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Adhesive for the application of soles to shoes. J. Alexander. No. 156,498; June 27.
Apples and pears, Fresh. C. M. Kopp Company. No. 156,532; June 27.
Bags, boxes, and cases, Certain. Hauser & Weil. No. 156,525; June 27.
Beds, tables, and chairs. Stoll Mfg. Co., The. No. 156,555; June 27.
Belting, Machine. F. Reddaway & Co. No. 21,538; renewed Aug. 2, 1922.
Belting, Machine. Manhattan Rubber Mfg. Co. No. 156,536; June 27.
Beverage and sirup therefor, Fruit. Cincinnati Beverage and Products Co. No. 156,507; June 27.
Beverages and sirups. L. Steinberger. No. 156,553; June 27.
Beverages and sirups for making same. Card-Martin Company. No. 156,505; June 27.
Blankets, Woolen. Oregon City Mfg. Co. No. 156,544; June 27.
Boots, shoes, and slippers. Rice & Hutchins. No. 20,581; renewed Jan. 12, 1922.
Bristol board. J. W. Butler Paper Company. No. 156,504; June 27.
Brooders and incubators. R. F. Neubert Co. No. 156,541; June 27.
Brushes, Artists'. M. Grumbacher. No. 156,523; June 27.
Cabinet for nuts and the like, Display. W. C. Roberts Co. Nos. 156,546–7; June 27.
Calcined gypsum, plaster of Paris, and Keene's cement. United States Gypsum Company. No. 156,560; June 27.
Candies. Langley & Michaels Co. No. 156,574; June 27.
Candies. Starkel Candy Company. No. 156,577; June 27.
Candies. H. W. Townsend. No. 156,557; June 27.
Candies. J. Vinikow. No. 156,559; June 27.
Candies and canned soups. H. J. Greenhut. No. 156,522; June 27.
Candy. Edna May Candy Co. No. 156,537; June 27.
Candy. H. Goelitz. No. 156,518; June 27.
Candy, Pipe. Chase & Company Corporation. No. 20,034; renewed Aug. 18, 1922.
Candy, Pipe. Chase & Company Corporation. No. 20,144; renewed Sept. 15, 1921.
Candy, Small sugared sticks of. Chase & Company Corporation. No. 20,178; renewed Sept. 29, 1921.
Canned clams, fish, and berries. Warrenton Clam Co. No. 156,561; June 27.
Canned ripe olives, artichokes, tuna fish, pimientos, etc. Curtis Corporation. No. 156,510; June 27.
Canned, smoked, and dried meats, soup, marmalade, mincemeat, etc. John Morrell & Co. No. 156,540; June 27.
Chemical products derived from sugar. Schering & Glatz. No. 21,864; renewed Oct. 11, 1922.
Cigars. Y. Alvarez. No. 19,585; renewed May 26, 1921.
Cigars. I. Alvarez. No. 19,936; renewed July 28, 1922.
Cigars. I. Alvarez. No. 19,947; renewed July 28, 1921.
Coffee. Adolph Stoecker & Son. No. 156,554; June 27.
Coffee. G. B. Farrington Company. No. 156,513; June 27.
Construction materials. Texas Company, The. No. 156,556; June 27.
Cosmetics, salves, and ointments. Blondeau et Cie. No. 21,085; renewed May 10, 1922.
Cotton piece goods. John P. King Manufacturing Co. No. 156,573; June 27.
Cotton piece goods. Lonsdale Company. No. 156,534; June 27.
Crabs, clams, shrimp, oysters, &c., Fresh and cooked. W. Hasslinger. No. 156,571; June 27.
Dates. Hills Brothers Company. No. 156,572; June 27.
Drills, reamers, end mills, and slitting saws. Fastfeed Drill & Tool Corporation. No. 156,514; June 27.
Fire hose. F. Reddaway & Co. No. 21,386; renewed June 28, 1922.
Fishing lines. Ashaway Line & Twine Manufacturing Company. No. 156,500; June 27.
Fishing lines. B. F. Gladding & Co. Inc. Nos. 156,516–17; June 27.
Flour. J. Butler. No. 21,344; renewed June 21, 1922.
Flour, Wheat. Minkota Milling Company. No. 21,940; renewed Nov. 8, 1922.
Fruits, Fresh citrus. Bastanchury Ranch Company. No. 156,502; June 27.
Hack-saw machines. E. C. Atkins & Co. No. 156,501; June 27.
Hair nets. J. Fleischer. No. 156,569; June 27.
Heaters, lamps, ranges, grills, and cooking stoves, Certain fixtures and parts thereof. Eclipse Light Company. No. 156,512; June 27.
Hooks and eyes for garments. Richardson & De Long Bros. No. 20,923; renewed Apr. 5, 1922.
Hooks and eyes. Richardson & De Long Bros. No. 21,076; renewed May 3, 1922.
Hops. Malt Extract Co. No. 156,535; June 27.
Hose and machine belting, Hydraulic. New Jersey Car Spring and Rubber Co. No. 18,744; renewed Dec. 30, 1920.
Hosiery. J. Smedley. No. 20,906; renewed Mar. 29, 1922.
Ice cream. Hendler Creamery Company. No. 156,528; June 27.
Iron and steel sheets, sheet roofing, plates, bars, etc. Youngstown Sheet and Tube Company. No. 156,565; June 27.
Jelly, mushrooms, peppers, or pimientos, Bar-le-duc. Bordeaux & New York Trading Co. No. 156,503; June 27.
Knitted underwear, Women's. Merit Underwear Company. No. 156,538; June 27.
Laces and braids, Shoe and corset. American Braiding Company. No. 156,499; June 27.
Lamps, Incandescent electric. Westinghouse Lamp Company. No. 156,579; June 27.
Laths, Expanded-metal. Northwestern Expanded Metal Company. No. 156,542; June 27.
Leather of all kinds, skins unwrought and wrought, and articles made of leather. J. Meredith-Jones & Sons. No. 21,070; renewed May 3, 1922.
Liver regulator and blood purifier. A. H. Lewis Medicine Co. No. 21,202; renewed May 24, 1922.
Lozenges, Flavored edible. S. C. Bias. Nos. 156,566–7; June 27.
Magazine, Monthly. Woman's World Magazine Co. Inc. No. 156,564; June 27.
Medicines and pharmaceutical preparations for rheumatism, gout, etc. W. Schapira. No. 156,576; June 27.
Milk, cocoa, sugar, and vanilla, Concentrated preparation of. Galloway-West Company. No. 156,570; June 27.
Milk put up in sealed containers, Sterilized. National Dairy Co. No. 156,575; June 27.
Nainsooks, poplins, long cloth, and cambrics in the piece. James A. Hearn & Son Inc. No. 156,526; June 27.
Notions. Gilman B. Smith Company Inc. No. 156,550; June 27.
Oats, wheat, and buckwheat. J. Butler. No. 21,030; renewed Apr. 26, 1922.
Oil and preparations of cod-liver oil, Cod-liver. Southall Bros. & Barclay. No. 21,106; renewed May 10, 1922.
Oil, Olive. A. Merlino. No. 156,539; June 27.
Oil, Refined. Devoe Manufacturing Co. No. 20,770; renewed Feb. 23, 1922.
Oils, greases, and waxes. Standard Oil Company (Incorporated in New Jersey). Nos. 156,551–2; June 27.
Packing, Metallic. Crane Packing Co. No. 156,508; June 27.
Paint renovator. W. B. Green. No. 156,521; June 27.
Paints for foundation and finishing coats on certain materials. Goheen Corporation. No. 156,519; June 27.
Plates, clamps, and rivets for machinery belting, Fasteners. Crescent Belt Fastener Company. No. 156,509; June 27.
Polish. C. B. Shawcross. No. 156,549; June 27.
Poultry, Live. P. Sciarra. No. 156,548; June 27.
Programs, invitations, calendars, Covers for embossed and illuminated dance. Hugh Stephens Printing & Stationery Company. No. 156,530; June 27.
Pumps and crude-fuel-oil pumping equipment, Fuel-oil. J. C. Johnson. No. 156,531; June 27.
Radio telephone and telegraph transmitters and receivers, antenna outfits, head phones, etc. Westinghouse Electric & Manufacturing Company. No. 156,578; June 27.
Razors. J. A. Henckels. No. 156,527; June 27.
Remedy for diseases of the uterine organs and similar ailments. Henry K. Wampole & Co. No. 21,233; renewed May 31, 1922.
Remedy for nervous disorders. William H. Gannett. No. 21,516; renewed July 26, 1922.
Salts in tablet form, Mineral-water. Georges Prunier & Cie. No. 156,515; June 27.
Shortening. D. A. Blanton. No. 156,568; June 27.
Silk, Spool. Gudebrod Bros. Silk Co. No. 156,524; June 27.
Skins dyed by special process to be made into fur garments, Rabbit. A. Kosofsky. No. 156,533; June 27.
Soap and other cleaning and detergent preparations. J. T. Robertson Soap Company. No. 21,425; renewed July 5, 1922.
Specific for cholera infantum. L. A. Davidson. No. 20,985; renewed Apr. 19, 1922.
Starch for laundry or food purposes, Preparation of. National Starch Manufacturing Company. No. 20,943; renewed Apr. 5, 1922.
Tacks, Carpet-laying. G. G. Roberts Corporation. No. 156,545; June 27.
Tires, Inner tubes for pneumatic. H. V. Veghte. No. 156,558; June 27

Tomato catsup. J. Butler. No. 21,258; renewed June 7, 1922.
Tools and machinery, Certain. Goodell-Pratt Company. No. 156,520; June 27.
Truck, Automobile. Old Reliable Motor Truck Corporation. No. 156,543; June 27.
Trucks, conversion units for making motor trucks from automobiles, and parts thereof, Motor. Hudford Company of Chicago. No. 156,529; June 27.
Undershirts, hosiery, drawers, and union suits. H. Wolf & Sons. No. 156,563; June 27.
Vehicle wheel and tire chains. Daubenspeck Chain Company. No. 156,511; June 27.
Vehicle wheel antiskid chains and attachments. Weaver Manufacturing Company. No. 156,562; June 27.
Watches and jewelry. Hayden W. Wheeler & Co. No. 21,725; renewed Sept. 6, 1922.
Waterproof collars and cuffs. Arlington Collar and Cuff Co. No. 20,850; renewed Mar. 15, 1922.
Window antirattlers. D. H. Chason. No. 156,506; June 27.
Wire for stitching machines. J. L. Morrison. No. 19,125; renewed Mar. 3, 1921.
Wire-stitching machine. J. L. Morrison. No. 19,124; renewed Mar. 3, 1921.

ALPHABETICAL LIST OF LABELS.

"Antelope." (For Pears.) Antelope Valley Fruit Growers Association. No. 24,570; June 27.
"Big Jo." (For Bread.) Wabasha Roller Mill Company. No. 24,611; June 27.
"Bonded." (For Tomatoes.) See-Moon & Company. No. 24,603; June 27.
"Butter Maid Bread." (For Bread.) Newark Paraffine & Parchment Paper Co. No. 24,592; June 27.
"Byers Golden Almonds." (For Packages Containing Almonds.) Byer & Sons. Nos. 245,573–4; June 27.
"Calso." (For Water.) The Calso Company. No. 24,575; June 27.
"Columbia Hot Shot Battery." (For Electric Batteries.) National Carbon Company. No. 24,587; June 27.
"Curlox Oversize Hair Net." (For Hair Nets.) National Commodities Company. No. 24,589; June 27.
"Daisy." (For Bread.) Saniwax Paper Co. No. 24,597; June 27.
"Derby." (For Oranges.) L. K. Small Company. No. 24,606; June 27.
"Detroiter Brand." (For Sliced Sugar-Cured Bacon.) Detroit Packing Co. No. 24,578; June 27.
"Easter Joy." (For Candy.) Consumers Biscuit Company. No. 24,576; June 27.
"Edgemont." (For Apples.) N. M. Crossley. No. 24,577; June 27.
"Every-Day." (For Bread.) Saniwax Paper Co. No. 24,595; June 27.
"Extra Select Diamond Brand." (For Boxes of Apples.) Bourk-Donaldson-Taylor Fruit Company, The. No. 24,572; June 27.
"Forget-Me-Not." (For Bread.) Saniwax Paper Co. No. 24,599; June 27.
"14 in 1." (For Tomatoes.) See-Moon & Company. No. 24,604; June 27.
"Haughton." (For Lubricants.) Haughton Elevator & Machine Co. No. 24,582; June 27.
"Litit Automobile Electric Cigar Lighter." (For a Counter Card for Displaying Electric Cigar Lighters.) M. H. Shoenberg. No. 24,605; June 27.
"Luden's Spearmint Leaves." (For Candy Confections.) W. H. Luden, Inc. No. 24,585; June 27.
"M H" Wennersten's." (For Malt Extracts.) Henning Wennersten Incorporated. No. 24,584; June 27.
"Miner's Minstrel Black." (For Chemical Preparation in Paste Form Suitable for Blackening the Skin.) E. H. C. Miner. No. 24,586; June 27.
"Putt-Putt Golf Game." (For a Game Apparatus.) Putt-Putt Co. No. 24,594; June 27.
"Rite-Tone Tubephone." (For Musical Instruments.) The Playatone Co. No. 24,593; June 27.
"Satin White." (For Bread.) Saniwax Paper Co. No. 24,601; June 27.
"Save The Surface." (For Paints and Varnishes.) H. A. Gardner. No. 24,580; June 27.
"Snow White." (For Bread.) Saniwax Paper Co. No. 24,596; June 27.
"Snows." (For Candy.) Snows Candy Corporation. No. 24,607; June 27.
"Sweet Home." (For Bread.) Saniwax Paper Co. No. 24,598; June 27.
"Sweet-Nut Goobers." (For Salted Peanuts.) National Foods Products Co. Nos. 24,590–1; June 27.
"The Nut Family." (For Nuts.) P. S. Henderson. No. 24,583; June 27.
"Two Way Service." (For Table Salt.) G. M. Sultenfuss. No. 24,608; June 27.
"Vaglo Hair Net." (For Hair Nets.) National Commodities Company. No. 24,588; June 27.
"Vapocide." (For Insecticides, Fungicides, and Fumigating Materials.) Grasselli Chemical Company. No. 24,581; June 27.
"Vegex Almonds." (For a Vitamine Food Preparation.) Vitamin Food Co. Inc. No. 24,610; June 27.
"Vermicelli." (For Boxes or Other Packages Containing Vermicelli.) Italia Bianchi. No. 24,571; June 27.
"Virden's Thrift." (For Meat Loaf.) Virden Packing Company. No. 24,609; June 27.
"White Eagle." (For Pile Salve.) J. Gamble. No. 24,579; June 27.
"White Lily." (For Bread.) Saniwax Paper Co. No. 24,600; June 27.
"White Rose." (For Bread.) Saniwax Paper Co. No. 24,602; June 27.

ALPHABETICAL LIST OF PRINTS.

"Baby-Bo Milk Nut." (For Advertising Purposes for a Milk Nut Bar.) Milwaukee Paper Box Company. No. 6,190; June 27.
"Better than Jewels." (For Advertising Purposes for Palmolive Soap.) Palmolive Company. No. 6,191; June 27.
"Brewer's Questionnaire." (For Advertising Purposes for Game Boards.) Chas. A. Brewer & Sons. No. 6,183; June 27.
"Eaton's Highland Linen, Strange, isn't it, dear, that you should accept Jack on Eaton's Highland Linen, the same paper I used when I said Yes to your father." (For Advertising Purposes for Eaton's Highland Linen.) Eaton, Crane & Pike Company. No. 6,185; June 27.
"Hope Hampton Hats." (For Advertising purposes for Hats.) Belaffsky Brothers. No. 6,179; June 27.
"Ideal Can Spout." (For Advertising Purposes for a Detachable Spout for Containers.) Ideal Novelty Company. No. 6,188; June 27.
"It Costs You ☆ of a Cent a Cleaning." (For Advertising Purposes for Toothpaste.) Wrigley Pharmaceutical Co. No. 6,194; June 27.
"Jack Rabbit acts as a Cab." (For Advertising Purposes for Breakfast Food.) Breakfast Brownies Company. No. 6,182; June 27.
"Kant-Skore Pistons Weigh Lightest-Fit Tightest." (For Advertising Purposes for Pistons.) Kant-Skore Piston Company, The. No. 6,189; June 27.
"Lowell Metal Ceiling." (For Advertising Purposes for Metal Ceiling.) David Bordeleau. No. 6,180; June 27.
"Order Of Dippy Dips." (For Advertising Purposes for Game Boards.) Chas. A. Brewer & Sons. No. 6,184; June 27.
"Redglo." (For Advertising Purposes for Coke.) Stewart Sand Company. No. 6,193; June 27.
"The Great Bird Puzzles the Brownies." (For Advertising Purposes for Breakfast Food.) Breakfast Brownies Company. No. 6,181; June 27.
"To Advertise the Stamford Fountain Pen." (For Advertising Purposes for Fountain Pens.) Albert A. Severen. No. 6,192; June 27.
"Where the '57' began The Little House that was floated down the River." (For Advertising Purposes for Heinz 57 Varieties.) H. J. Heinz Co. No. 6,186; June 27.
"Your boy will eat almost any thing that tastes good." (For Advertising Purposes for Heinz Pure Food Products.) H. J. Heinz Co. No. 6,187; June 27.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Arch supports. Saperston Manufacturing Co. No. 143,897; June 27.
Automobile auxiliary seats. "Holemtite" Auto Seat Company. No. 163,085; June 27.
Automobile seat covers. Keep Klean Kover Co. No. 149,280; June 27.
Automobile windshields, Shade for eliminating glare upon. W. Welshhausen. No. 159,066; June 27.
Automobiles. F. W. Berwick & Co. No. 131,205; June 27.
Automobiles. Carvel & Buquor. No. 162,160; June 27.
Automobiles. Sheridan Motor Car Company. No. 136,654; June 27.
Automobiles. Simplex Automobile Company. No. 128,282; June 27.
Automobiles and constructive parts thereof. Star Motors Incorporated. No. 161,341; June 27.
Automobiles and their parts. Maxwell Motor Corporation. No. 157,435; June 27.
Automobiles, Electric signal and tail lights for use on. U. S. Automobile Indicator Co. No. 157,593; June 27.
Automobiles, motor propelled trucks, etc. G. A. Coats. No. 158,916; June 27.
Automobiles, Remanufacturing. Triangle Motors Incorporated. No. 159,063; June 27.
Babbitt, bearing, and antifriction metals and alloys. Magnolia Metal Company. No. 163,454; June 27.
Batteries, Dry. W. T. Grant Company. No. 161,184; June 27.
Batteries, Storage. Charles William Stores, Inc. No. 145,673; June 27.
Battery plates, Lead. Continental Battery Company. No. 161,528; June 27.
Belting, Leather. Graton & Knight Manufacturing Company. No. 117,661; June 27.
Beverage sold as a soft drink and sirups for making same. W. H. Elam. No. 163,439; June 27.
Beverages sold as soft drinks and sirup for making same. H. G. Abele. No. 163,851; June 27.
Beverages sold as soft drinks and sirup for making same. J. W. Poole. No. 163,892; June 27.
Beverages sold as soft drinks and sirups for making same. Pure Products Syrup Corporation. No. 163,467; June 27.
Bicycles. Myerow Bros. No. 159,976; June 27.
Books in a continuing series. McLoughlin Bros. Inc. No. 159,214; June 27.
Boric acid, alum, borax, etc., Powdered. D. Quateman. No. 142,719; June 27.
Bottles, Glass. Southern Glass Company. No. 162,958; June 27.
Bottles, Glass milk. Thatcher Manufacturing Co. No. 147,949; June 27.
Bread. Herendeen Milling Company. No. 150,682; June 27.
Buildings. Anchor Corrugating Construction Co. No. 158,465; June 27.
Bulletin boards, Job. G. H. Radebaugh. No. 159,616; June 27.
Candy. C. F. Erb & Son. No. 157,831; June 27.
Candy. Page & Shaw. No. 157,233; June 27.
Candy. Sweet Candy Co. No. 123,779; June 27.
Candy and tablets, Mint. Cremint Co. No. 157,554; June 27.
Candy, Nut. West Indies Limes Company. No. 149,435; June 27.
Canned crab meat, fish, vegetables, fruit, and pickles. S. Tsutsumi. No. 145,046; June 27.
Carbon black. G. W. De Smet. No. 158,607; June 27.
Castings, Metal. Doehler Die-Casting Company. Nos. 144,019–20; June 27.
Castings, Metal. International Permold Company. No. 162,819; June 27.
Cement for repairing broken china, glass, etc. N. S. Hill. No. 158,236; June 27.
Cement, gas-retort cement, liquid and plastic roof cement, etc., Asbestos furnace. Rutland Fire Clay Co. No. 161,337; June 27.
Cement, Refractory. Harbison-Walker Refractories Company. No. 157,096; June 27.
Cements, repair gum and outfits. Z. T. Goodrich Company. No. 137,461; June 27.
Chemicals and pharmaceuticals. T. Fujisawa & Company. No. 147,236; June 27.
Chronometers, watches, clocks, wrist watches, and sautoir watches. H. E. Jacobi. No. 162,014; June 27.
Cigarettes. A. S. Wildes. No. 164,210; June 27.
Cigarettes and smoking tobacco. Bailey Brothers Inc. No. 162,913; June 27.
Cigars. The Fair. No. 149,220; June 27.
Cigars. Gene Vall Cigar Co. No. 160,494; June 27.
Cigars. Sidney Cigar Manufacturing Company. No. 162,584; June 27.
Cigars and little cigars. R. N. Paris. No. 164,068; June 27.
Cigars, cigarettes, and smoking tobacco. C. R. Berry. No. 162,100; June 27.
Cigars, cigarettes, smoking, and chewing tobacco, snuff. R. D. Ward. No. 162,363; June 27.
Clocks. James McCreery & Company. No. 158,243; June 27.
Clothing. Wentworth Clothing Company. No. 152,151; June 27.
Clothing, linen, floor coverings, etc., Devices for sustaining at variable heights. Little Giant Company. No. 159,424; June 27.
Coats, suits, underwear, hosiery, neckties, shirts, etc. Guthrie & Co. No. 154,308; June 27.
Coffee. Merchants Coffee Co. of New Orleans. No. 156,332; June 27.
Coke. Koppers Company. Nos. 157,488–9; June 27.
Cordage, including cables, ropes, and twine, Hard fiber. Plymouth Cordage Company. No. 158,800; June 27.
Corsets. Nu Bone Corset Company. Nos. 158,326–7; June 27.
Cotton linings and pocketings. Adolph Rosenberg & Co. No. 159,620; June 27.
Cotton piece goods. Pelzer Manufacturing Company. No. 159,178; June 27.
Crayons, Wax and chalk. Standard Crayon Manufacturing Co. No. 161,856; June 27.
Cream, Sunburn. P. L. McConomy. No. 160,144; June 27.
Creams, foundation and massage creams, skin balms, lemon lotions, etc., Cold. W. Kahn. No. 159,422; June 27.
Creams, toilet powders, shampoos, etc., Skin cleansing and toilet. B. F. Darneille. No. 163,435; June 27.
Curling liquid. B. Hurewich. No. 160,289; June 27.
Dentists' and surgeons' instruments and appliances. Hadfield's Limited. No. 136,263; June 27.
Diapers, Babies'. Thomas Textile Company. No. 158,201; June 27.
Dish-washing machines, Electric. A. S. Loveland. No. 161,928; June 27.
Draft devices for heating apparatus, Automatically electrically-controlled. Philadelphia Steam Heating Co. No. 159,611; June 27.
Drawings and the like, Apparatus for copying. Dreyer & Butz. No. 157,261; June 27.
Dresses, suits, and cloaks, Ladies'. Mitchell Brothers Company. No. 139,363; June 27.
Dyes. L. L. Briden & Co. Nos. 160,180–1; June 27.
Electric-appliance time controller. Sterolectric Company. No. 158,014; June 27.
Electric-lighting fixtures and parts. S. Sharlin. No. 157,081; June 27.
Electric lights for automobile running boards. W. Dobschutz. No. 159,958; June 27.
Electric motors. Racine Electric Co. No. 162,059; June 27.
Electrical house pumps, water systems, gasoline pumps, etc. Dayton Pump & Manufacturing Company. No. 158,759; June 27.
Electrical warning signals. E. A. Laboratories, Inc. No. 155,490; June 27.
Eyeglasses. E. B. Meyrowitz, Inc. No. 157,327; June 27.
Fishing rods, steel fly and bait fishing rods, enameled silk fishing lines, etc., Split-bamboo fly and bait. Winchester Repeating Arms Co. No. 163,063; June 27.
Flannels in the piece. Lamson Brothers Co. No. 158,131; June 27.
Flour. M. B. Scanlon. No. 141,330; June 27.
Flour, Pancake. I. D. Ekbergh. No. 154,079; June 27.
Flour, Wheat. Hayland Flour Mills Company. No. 160,348; June 27.
Furnaces, Coal. Seattle Pipeless Furnace and Manufacturing Company. No. 159,724; June 27.
Furniture, Printers'. Hamilton Manufacturing Company. No. 145,894; June 27.
Gas logs and stoves. Con-Den-Rit Radiant Log Corporation. No. 154,637; June 27.
Germicide, disinfectant, and deodorizer for expelling insects and the like from animals. Lyndon Chemical Company. No. 160,143; June 27.
Glue, Millinery. C. T. Smith. No. 149,428; June 27.
Gowen-Lecesne, Anne V., Paris, France. Basic materials used in the manufacture of refractory bricks and emery wheels. No. 133,865; June 27.
Gauges, Liquid indicating. Berge-Rathbun Co. No. 158,034; June 27.
Grape juice. Reid, Murdoch & Co. No. 163,175; June 27.
Hair nets. New England Supplies Corporation. No. 159,663; June 27.
Hair nets. Walker Stetson Company. No. 160,104; June 27.
Hair nets. Wondernette Company. No. 161,467; June 27.
Hair restorer. B. Logar. No. 158,991; June 27.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Hats and caps. Forman & Levinson. No. 156,572; June 27.
Hats, Ladies'. Frank W. Abbott Corporation. No. 158,173; June 27.
Hats, Ladies', misses' and children's trimmed. Lichtenstein Mittenthal Company. No. 158,001; June 27.
Hats, Men's. The Fair. No. 156,893; June 27.
Hosiery. W. Scott, Jr. No. 156,343; June 27.
Hosiery, Men's cotton, lisle, fiber, and silk. Aivory Sox Co. No. 158,281; June 27.
Ink, Writing. Crocker Pen Company. No. 156,677; June 27.
Inks, Printing. Sigmund Ullman Co. No. 158,729; June 27.
Jellies, fruit preserves, apple butter, and flavoring extracts. Blanke-Baer Extract & Preserving Company. No. 157,012; June 27.
Knit fabric made of artificial silk, Tubular. Clayburgh Brothers. No. 159,851; June 27.
Knit underwear, Women's. Clift and Goodrich Inc. No. 129,447; June 27.
Knitted garments. Fuld and Hatch Knitting Company. No. 157,833; June 27.
Knitted, netted, and textile fabrics. Duplan Silk Corporation. No. 156,987; June 27.
Knives and forks, knives, razors, scissors, etc., Table. A. Wingen, Jr. No. 155,537; June 27.
Lacquer, Millinery. C. T. Smith. No. 149,427; June 27.
Lamp, Electric. Light-Sight Products Corporation. No. 159,601; June 27.
Laxative. H. C. Van Buskirk. No. 154,246; June 27.
Leathers. A. M. Gutterman & Sons Co. No. 163,516; June 27.
Leathers. Benjamin V. Harrison Co. No. 162,413; June 27.
Lenses, Ophthalmic. Bausch & Lomb Optical Co. No. 158,220; June 27.
Liniment for rheumatism. G. Ferrera. No. 137,369; June 27.
Linings and pocketing in the piece. Simonson, Rogers & Jaeger. No. 132,272; June 27.
Locks, night latches, and padlocks. Eagle Lock Co. No. 159,353; June 27.
Loganberry juice. Northwest Fruit Products Co. No. 163,644; June 27.
Magazine published monthly. B. V. Crandall. No. 159,144; June 27.
Malt-extract sirup for food purposes. Schreiber Products Corporation. No. 146,504; June 27.
Mash, starting and growing foods, hatching eggs, and baby chickens, Laying. A. E. Kerlin. No. 154,519; June 27.
Massaging the gums, Instrument for. Societe des Appareils mécaniques d'Hygiène buccale. No. 158,013; June 27.
Medical preparation for reducing blood pressure. Stoddart Bros. Inc. No. 158,542; June 27.
Medicinal compound. Py-Re-Gon Company. No. 155,273; June 27.
Medicinal preparation. C. J. Brooks. No. 159,781; June 27.
Medicinal preparation. Hoffman-La Roche Chemical Works. No. 158,679; June 27.
Medicinal preparation. Ultra Refined Crude Products Co. No. 159,065; June 27.
Medicinal preparation for eczema and other skin diseases. W. I. Russell. No. 158,152; June 27.
Medicinal preparation for the treatment of boils, pimples, abscesses, etc. J. F. Ruckel. No. 160,431; June 27.
Metal ware and metal culinary utensils. Reliance Metal Spinning & Stamping Co. No. 158,151; June 27.
Mortar, Mixture for use in making. Cleveland Builders Supply & Brick Company. No. 126,171; June 27.
Necktie. M. F. Turilli. No. 156,195; June 27.
Oil, Olive. E. Di Bianco. No. 157,660; June 27.
Oil, Olive. G. J. Bulubassis. No. 155,043; June 27.
Oils, greases, and waxes, Certain. Standard Oil Company (Incorporated in New Jersey). No. 157,178; June 27.
Oils, Lubricating. Crescent Oil Company. No. 128,545; June 27.
Oils, Lubricating. F. L. Wilson. No. 154,005; June 27.
Oilers, yarn mops, dust cloths, and yarn dust brushes, Floor. Standard Oil Company of New York. No. 162,902; June 27.
Ointment for sweaty and fetid feet and arms. F. Orr. No. 158,639; June 27.
Overalls, jumpers, union underwear, and combination suits. L. S. Tobin. No. 154,390; June 27.
Paint. Goheen Corporation. No. 129,134; June 27.
Paints. Goheen Corporation. No. 129,135; June 27.
Paints, Dry, ready-mixed, and paste. E. M. Cherry. No. 157,139; June 27.
Paints, oils and varnishes, Ready-mixed. H. Peterman. No. 153,407; June 27.
Paints, varnishes, and floor filler, Ready-mixed. Lion Varnish Company. No. 155,230; June 27.
Paper from which patterns are made. Charles F. Hubbs & Co. No. 161,883; June 27.
Paper, Sheathing and building. Flintkote Company. No. 157,994; June 27.
Paper, Wrapping, bond, and cover. Arthur R. Rapp Company. No. 162,058; June 27.
Papers, Writing and printing. Charles F. Hubbs & Co. No. 161,884; June 27.
Pencils. Listo Pencil Corporation. No. 162,186; June 27.
Phonograph record albums. A. T. Kasnick. No. 156,814; June 27.
Phonograph reproducers, Diaphragms for. Jewel Phonoparts Company. No. 150,538; June 27.
Phonographs. H. L. Bullinger. No. 149,557; June 27.
Phonographs. Melodia Phonograph Co. No. 130,682; June 27.
Pianos, player pianos, phonographs. Weser Bros. Inc. No. 146,282; June 27.
Pipes, Product for cleaning out waste, drain, or stopped-up. C. B. Dolge Company. No. 158,470; June 27.
Polish for automobiles, pianos, furniture, safes, etc. C. G. Schmidt. No. 157,452; June 27.
Polish for automobiles, pianos, talking machines, furniture, and hard wood floors. G. A. Lord. No. 148,843; June 27.
Polish for furniture, automobiles, and musical instruments. E. Meyer. No. 144,031; June 27.
Porcelain products for electrical use. Square D Company. No. 144,839; June 27.
Powder, Toilet. Chloreate Company. No. 159,198; June 27.
Preparation for cleaning and removing dirt, grit, etc., from glass and other glazed surfaces. Skybryte Company. No. 156,810; June 27.
Preparation for the treatment of pyorrhea. Pyo-Coda Laboratories. No. 158,948; June 27.
Preparation in salve form for influenza and a preparation in tablet form for colds. A. G. Barnes. No. 160,275; June 27.
Putty, Stove and boiler. Rutland Fire Clay Co. No. 154,992; June 27.
Pyjamas. Lord & Taylor. No. 155,507; June 27.
Railway frogs, crossings, rail braces, and guard rails. Cincinnati Frog & Switch Co. No. 160,869; June 27.
Refrigerating apparatus and artificial-ice machinery. E. A. Burrows. No. 156,877; June 27.
Relay, Overload. Brown & Pengilly. No. 160,746; June 27.
Remedy for insomnia and restlessness, Preparation used as a. H. K. Mulford Company. No. 159,371; June 27.
Roofing and flooring materials. Flintkote Company. No. 136,118; June 27.
Roofing, Felt. Stelwagon Manufacturing Co. No. 160,366; June 27.
Sadirons, branding and soldering irons, Electrical heating elements for. Dover Manufacturing Company. No. 145,504; June 27.
Safes and locks. Victor Safe and Lock Company. No. 161,076; June 27.
Salve for the treatment of sores, burns, boils, eczema, and the like. E. Gosselin. No. 158,864; June 27.
Sandwiches and pastry. B/G. Sandwich Shops. No. 152,868; June 27.
Sausage, Pork. Joseph Stern & Sons, Inc. No. 154,535; June 27.
Seeds, bulbs, roots, and plants, Vegetable, flower, and field. W. Atlee Burpee Co. No. 163,669; June 27.
Serum for the treatment of cancer. A. G. Grenoble. No. 163,270; June 27.
Shade cloth in the piece, Window-. Columbia Mills, Inc. No. 159,646; June 27.
Shirts and pyjamas, Negligee and work. C. Milich. No. 156,585; June 27.
Shirts, collars, neckties, nightshirts, dressing gowns, etc., Men's and boys' dress. J. A. Migel Inc. No. 153,681; June 27.
Silk fabrics in the piece, Woven, knitted, netted, and textile. A. Sterzelbach & Sons Co. No. 159,109; June 27.
Silk piece goods. H. R. Mallinson & Co. No. 160,557; June 27.
Silk piece goods. H. R. Mallinson & Co. No. 161,560; June 27.
Silk piece goods. Muser Brothers. No. 156,848; June 27.
Silk, woolen, etc., piece goods. M. Strauss. No. 161,392; June 27.
Skiffs, rowboats, and canoes. St. Lawrence Boat Works. Nos. 163,007–8; June 27.
Soap and soap powders. Burns Products Company. No. 159,917; June 27.
Soap tumbler, and toothbrush holders, shelves, towel bars, etc. S. D. Baker. No. 155,798; June 27.
Soap, Vegetable-oil. Urbane E. Rogers Company. No. 157,959; June 27.
Soaps, Complexion and antiseptic. Madam C. J. Walker Manufacturing Company. No. 158,463; June 27.
Spark Plugs and parts thereof. Champion Spark Plug Company. No. 160,924; June 27.
Steel, Alloy. Ludlum Steel Company. Nos. 162,747–8; June 27.
Steel, alloy steel, iron and steel bars, and sheet bars. United Alloy Steel Corporation. Nos. 162,222–3; June 27.
Steel for use in the manufacture of die-blocks, tool steel forgings, etc. Heppenstall Forge and Knife Company. No. 159,089; June 27.

Stories or playlets in verse and prose, Series of separate illustrated. J. P. McEvoy. No. 159,273; June 27.
Stucco. Independent Gravel Company. No. 146,439; June 27.
Suits, Children's. L. B. Thomas. No. 157,286; June 27.
Suits, coats, overcoats, vests, and trousers. M. H. Wegman. No. 156,425; June 27.
Suits, overcoats, and topcoats, Men's and boys'. Lipman Wolfe & Co. No. 155,312; June 27.
Tablets, Indigestion. H. C. Van Buskirk. No. 154,247; June 27.
Tape, Sealing. Liberty Paper Co. No. 162,123; June 27.
Telephone receiving sets, Wireless. Prometheus Electric Company. No. 159,524; June 27.
Tents, awnings, paulins, tarpaulins, etc. Clifton Mfg. Company. No. 148,202; June 27.
Threads or yarns, artificial silk threads or yarns, etc., Pure silk. J. L. Schweyer. No. 149,362; June 27.
Tire casings and tubes, Automobile. Corona Cord Tire Company. No. 139,147; June 27.
Tire-repair materials, Adhesive. B. F. Goodrich Company. No. 137,472; June 27.
Tires and all rubber articles, Rubber patches for. Justa Manufacturing Company. No. 151,917; June 27.
Tires and tubes for vehicles. Racine Rubber Company. No. 130,493; June 27.
Tires, Vehicle. Goodyear Tire & Rubber Company. No. 142,843; June 27.
Tobacco, cigars, cigarettes, and snuff, Smoking and chewing. "Turmac" Turkish-Macedonian Tobacco Co. No. 159,226; June 27.
Toilet preparations. M. Shields. No. 159,295; June 27.
Toilet waters and perfumes. Koken Companies. No. 159,421; June 27.
Tonic and regulator, Women's. I. Lewyn. No. 159,271; June 27.
Tonic, Reconstructive. Mall Dunn Medicine Company. No. 160,294; June 27.
Trucks and constructive parts thereof, Motor. Mason Motor Truck Company. No. 162,497; June 27.
Trucks designated in the trade as mill cars, Hand. H. D. Priest. No. 161,060; June 27.
Valves and pipe fittings. Pittsburgh Reinforced Brazing & Machine Company. No. 158,886; June 27.
Varnish stain. Benjamin Moore & Co. No. 153,762; June 27.
Vehicles, Electric signal lights for use on. W. E. Moulton. No. 157,436; June 27.
Washboards. R. F. Starr. No. 152,142; June 27.
Washboilers. Sargoy Bros. No. 155,837; June 27.
Washing machines, Electrically-operated textile fabric. Cadillac Washing Machine Co. No. 158,298; June 27.
Washing machines for laundry purposes. Boss Washing Machine Company. No. 160,535; June 27.
Watchcases and watchcase guards. North American Watch Company. No. 142,998; June 27.
Water equalizers, Hot-. H. E. Heim. No. 155,962; June 27.
Water heaters, Gas. American Heater Corporation. No. 157,978; June 27.
Waterproofing compound for concrete plaster, and stucco. Gohcen Corporation. No. 129,132; June 27.
Waterproofing compounds, Liquid. Scofield, Evans and Company. No. 157,110; June 27.
Welding bars and rods. Atlas Foundry Company. No. 160,273; June 27.
Welding plates and powders, brazing and tempering powders. Societe des Plaques et Poudres à Souder J. Laffitte. No. 138,346; June 27.
Wire, cold drawn and rolled round, flat, and other shaped steel, aeroplane bracing and trussing wires, etc., Cold drawn steel. American Steel & Wire Company of New Jersey. No. 156,134; June 27.
Wool, wool and cotton, and wool and silk mixture fabrics in the piece. Shlivek Brothers Fabrics Corporation. No. 159,290; June 27.
Woolen piece goods. Forstmann & Huffmann. Nos. 161,425–6; June 27.
Woolen piece goods. Forstmann & Huffmann. No. 161,428; June 27.
Woolen piece goods. Forstmann & Huffmann Company. Nos. 161,430–2; June 27.

CLASSIFICATION OF PATENTS

ISSUED JUNE 27, 1922.

NOTE.—First number=class, second number=subclass, third number=patent number.

1— 50: 1,421,265
2— 32: 1,420,689
1,420,690
1,421,139
62: 1,421,055
73: 1,421,062
76: 1,421,121
97: 1,421,131
98: 1,420,728
145: 1,421,162
149: 1,420,964
195: 1,421,308
3— 2: 1,421,216
12: 1,421,322
4— 55: 1,420,948
20: 1,421,297
60: 1,421,348
5— 15: 1,421,028
1,421,274
41: 1,420,755
48: 1,420,894
70: 1,420,945
72: 1,420,800
1,421,268
1,420,889
6 2: 1,420,960
10— 127: 1,420,847
12— 142: 1,421,347
15— 48: 1,420,809
56: 1,420,969
109: 1,421,071
120: 1,421,302
127: 1,420,937
146: 1,420,925
167: 1,421,399
212: 1,420,714
262: 1,420,872
16— 112: 1,420,815
210: 1,420,875
18— 2: 1,420,959
16: 1,421,095
34: 1,420,849
42: 1,420,727
1,420,803
53: 1,420,623
20— 1.1: 1,420,730
2: 1,421,124
1,421,299
21: 1,421,105
22: 1,420,969
79: 1,420,775
1,420,776
22— 20: 1,421,305
88: 1,420,888
151: 1,420,902
190: 1,420,940
23— 1: 1,421,232
13: 1,421,191
24— 11: 1,421,318
17: 1,421,164
31: 1,421,036
68: 1,420,816
80: 1,421,148
84: 1,420,654
90.5: 1,421,314
128: 1,420,897
129: 1,421,026
135: 1,420,790
140: 1,421,291
143: 1,420,632
1,420,657
150: 1,421,037
161: 1,420,952
241: 1,420,949
245: 1,421,061
1,420,746
1,421,222
25— 48: 1,420,796
121: 1,421,006
131: 1,421,236
131.5: 1,420,863
142: 1,421,155
27— 6: 1,421,018
29— 9.5: 1,420,742
27: 1,420,683
68: 1,421,107
82: 1,420,786
29— 156: 1,420,721
156.6: 1,421,203
30— 3: 1,420,666
12: 1,420,943
31— 84: 1,420,772
34— 69: 1,420,913
163: 1,420,700
178: 1,420,951
185: 1,421,072
34— 11: 1,420,653
12: 1,421,155
39: 1,420,679
35— 16: 1,421,173
37— 5: 1,420,981
7: 1,421,237
23: 1,421,345
1,421,346
29: 1,420,876
55: 1,420,733
39— 65: 1,421,088
95: 1,420,932
40— 6: 1,420,991
11: 1,421,219
84: 1,420,827
125: 1,421,022
130: 1,421,044
149: 1,421,097
150: 1,421,277
155: 1,421,301
42— 54: 1,421,334
43— 61: 1,420,824
1,421,298
81: 1,420,833
44— 9: 1,420,622
45— 13: 1,420,891
75: 1,420,676
79: 1,421,012
105: 1,421,039
46— 4: 1,420,946
14: 1,420,982
1,421,161
27: 1,421,013
35: 1,420,748
41: 1,420,956
56: 1,421,238
69: 1,421,198
47— 18: 1,421,327
38: 1,420,738
48— 161: 1,421,215
180: 1,420,732
1,421,130
186: 1,420,658
49— 17: 1,420,868
50: 1,420,867
54: 1,421,210
1,421,211
79: 1,420,996
51— 8: 1,421,001
26: 1,420,751
84: 1,420,656
137: 1,421,205
175: 1,421,303
228: 1,420,756
52— 33: 1,421,187
53— 3: 1,420,758
54— 49: 1,421,304
55— 19: 1,421,060
59: 1,421,123
83: 1,421,047
1,421,048
1,421,113
57— 19: 1,420,736
58— 24: 1,420,895
1,420,896
60— 24: 1,420,672
42: 1,421,087
61— 69: 1,420,640
1,421,332
62— 123: 1,420,626
175: 1,420,625
63— 2: 1,421,329
28: 1,421,339
64— 25: 1,421,208
1,421,258
37: 1,420,852
49: 1,421,082
55: 1,421,101
64— 91: 1,421,072
65— 13: 1,421,235
51: 1,421,169
66— 28: 1,420,857
68— 29: 1,421,094
70— 29: 1,420,910
46: 1,420,760
58: 1,420,723
74: 1,421,197
90: 1,421,054
122: 1,420,926
125: 1,421,059
126: 1,421,021
1,421,353
1,421,020
129: 1,420,853
71— 1: 1,421,283
72— 0.5: 1,420,973
7: 1,420,709
16: 1,421,007
30: 1,421,143
1,421,278
38: 1,420,810
47: 1,421,129
48: 1,421,145
71: 1,421,335
73— 1: 1,421,138
28: 1,420,752
31: 1,420,953
51: 1,420,909
52: 1,421,275
54: 1,420,628
82: 1,420,624
74— 7: 1,420,706
1,420,793
1,420,798
1,420,955
1,421,214
20: 1,421,049
27: 1,420,826
28: 1,421,231
38: 1,420,905
39: 1,420,809
1,420,821
1,421,136
40: 1,421,163
50: 1,421,213
58: 1,420,939
65: 1,420,962
81: 1,421,147
1,421,317
90: 1,420,995
108: R. 15,393
1,420,934
109: 1,421,202
1,421,295
75— 1: 1,420,707
1,420,708
45: 1,421,218
77— 8: 1,421,194
78— 49: 1,421,310
51: 1,420,866
81— 3: 1,420,729
4: 1,420,715
15: 1,420,988
17: 1,421,065
1,421,112
57: 1,420,635
88: 1,421,220
98: 1,421,206
111: 1,420,795
1,421,137
112: 1,421,152
121: 1,420,701
132: 1,421,287
82— 1: 1,421,133
9: 1,420,987
83— 14: 1,420,877
44: 1,421,343
56: 1,420,685
60: 1,421,245
73: 1,421,320
79: 1,420,975
88: 1,421,264
84— 50: 1,420,678
315: 1,420,784
86— 20: 1,420,637
88— 16.4: 1,421,279
24: 1,421,042
1,421,057
2.6: 1,421,321
57: 1,421,156
89— 10: 1,420,660
27: 1,420,972
90— 3: 1,421,116
15: 1,421,030
33: 1,421,014
58: 1,421,324
125: 1,420,915
91— 62.5: 1,421,300
70: 1,420,882
1,420,883
92— 3: 1,421,195
93— 51: 1,421,000
54: 1,420,827
60: 1,420,808
94— 43: 1,420,757
95— 32: 1,421,092
90: 1,421,079
97— 21: 1,421,011
40: 1,421,109
43: 1,421,111
44: 1,420,698
99— 2: 1,420,906
5: 1,420,630
10: 1,420,661
11: 1,421,176
14: 1,420,739
100— 48: 1,421,282
1,420,740
1,420,822
57: 1,420,822
101— 3: 1,420,686
1,420,765
40: 1,421,292
90: 1,420,881
149: 1,420,673
103— 79: 1,420,807
80: 1,421,004
1,421,253
85: 1,420,769
104— 23: 1,421,326
38: 1,421,008
44: 1,421,009
1,421,066
63: 1,420,887
105— 9: 1,421,293
81: 1,421,010
280: 1,420,971
408: 1,420,825
106— 7: 1,421,086
18: 1,421,192
40: 1,421,288
1,421,289
1,421,290
107— 26: 1,421,349
28: 1,420,797
108— 7: 1,421,040
16: 1,421,154
109— 2: 1,421,150
110— 60: 1,421,200
87: 1,420,764
104: 1,420,904
111— 25: 1,420,923
112— 242: 1,420,745
113— 80: 1,420,844
115— 1: 1,420,783
52: 1,421,226
116— 46: 1,420,983
47: 1,421,141
81: 1,420,743
87: 1,421,267
89: 1,421,144
162: 1,421,091
173: 1,420,967
117— 5: 1,420,744
6: 1,421,151
118— 57: 1,420,966
119— 17: 1,420,880
42: 1,421,075
68: 1,421,142
120— 17: 1,420,938
122— 356: 1,421,149
123— 63: 1,421,254
65: 1,421,273
123— 122: 1,420,922
148: 1,421,286
170: 1,420,684
196: 1,420,837
125— 13: 1,420,788
126— 20: 1,421,233
39: 1,420,688
43: 1,421,284
52: 1,421,132
90: 1,421,190
127— 9: 1,420,641
1,420,642
1,420,643
1,420,644
1,420,645
1,420,646
1,420,647
1,420,649
1,420,650
1,421,108
18: 1,420,648
40: 1,420,884
128— 160: 1,421,077
129— 21: 1,420,717
24: 1,421,126
132— 35: 1,421,313
81: 1,421,311
85: 1,420,766
133— 14: 1,420,631
134— 36: 1,421,125
59: 1,420,985
137— 104: 1,420,713
152: 1,421,135
139— 22: 1,421,172
47: 1,421,104
61: 1,421,081
85: 1,420,901
141— 7: 1,421,055
143— 19: 1,420,950
22: 1,421,204
117: 1,420,961
144— 2: R. 15,394
1,420,914
3: 1,420,976
254: 1,421,186
289: 1,420,941
306: 1,421,328
145— 31: 1,421,052
146— 5: 1,421,333
6: 1,421,207
7: 1,420,843
9: 1,420,933
148— 26: 1,420,908
151— 12: 1,421,090
28: 1,420,737
30: 1,421,127
32: 1,420,725
152— 2: 1,420,777
8: 1,421,106
1,421,323
9: 1,421,029
11.5: 1,420,997
12: 1,421,117
14: 1,420,667
1,420,778
1,421,103
1,421,115
17: 1,420,979
18: 1,420,655
1,420,674
21: 1,420,862
27: 1,420,792
44: 1,420,839
52: 1,421,224
153— 16: 1,420,731
21: 1,420,875
23: 1,421,035
38: 1,420,747
54: 1,420,785
1,421,354
79: 1,420,970
154— 2: 1,421,306
9: 1,420,930
45.9: 1,421,338
155— 13: 1,421,167
65: 1,420,787
73: 1,421,260
155— 179: 1,420,990
198: 1,420,924
157— 1: 1,420,781
1,420,813
1,420,927
158— 27.4: 1,420,720
1,420,921
33: 1,420,696
1,420,697
1,420,850
1,421,031
36: 1,420,753
1,420,886
1,421,067
53: 1,420,957
76: 1,421,158
97: 1,421,209
111: 1,420,947
115: 1,420,702
164— 60: 1,420,929
61: 1,421,263
113: 1,420,931
166— 19: 1,421,248
167— 6: 1,420,978
9: 1,420,634
170— 25: 1,420,652
47: 1,421,337
96: 1,421,063
172: 1,420,619
171— 119: 1,420,858
1,420,885
223: 1,420,761
225: 1,421,165
229: 1,420,817
1,420,818
1,420,819
1,420,820
1,420,069
1,421,246
242: 1,421,041
313: 1,421,285
172— 126: 1,420,864
1,421,350
179: 1,420,842
1,421,157
1,421,229
1,421,244
239: 1,421,261
288: 1,421,179
1,421,180
1,421,242
1,421,243
173— 244: 1,420,911
259: 1,420,770
1,420,771
1,420,846
1,421,017
1,421,355
351: 1,421,122
175— 294: 1,421,160
1,421,170
1,421,272
339: 1,421,269
355: 1,420,633
356: 1,420,989
363: 1,420,824
176— 27: 1,421,276
177— 327: 1,420,750
329: 1,420,801
179— 115: 1,421,015
175: 1,421,344
180— 22: 1,421,025
33: 1,420,638
44: 1,421,024
69: 1,421,068
77: 1,421,076
181— 27: 1,420,719
183— 43: 1,421,034
76: 1,420,954
1,420,986
77: 1,420,665
115: 1,420,802
186— 14: 1,420,907
187— 31: 1,421,043
188— 83: 1,421,241
119: 1,420,999
194: 1,420,762

188— 229: 1,421,064
189— 34: 1,421,089
46: 1,421,146
69: 1,421,019
190— 2: 1,420,782
13: 1,420,920
1,421,294
191— 48: 1,421,250
84: 1,420,859
193— 43: 1,421,056
44: 1,420,936
196— 19: 1,421,228
25: 1,420,832
197— 6.6: 1,421,074
30: 1,421,083
60: 1,420,998
172: 1,420,874
179: 1,421,134
198— 7: 1,421,225
108: 1,421,178
189: 1,420,705
200— 6: 1,420,984
18: 1,420,789
40: 1,420,902
67: 1,421,085
102: 1,420,935
121: 1,421,051
138: 1,420,659
202— 25: 1,420,944
203— 6: 1,420,958
204— 29: 1,420,675
1,421,217
64: 1,420,687
1,421,185
208— 37: 1,420,799
38: 1,420,791
42: 1,421,046
208— 126: 1,421,098
210— 27: 1,420,838
203: 1,421,341
211— 8: 1,420,834
1,420,835
1,421,312
11: 1,420,942
13: 1,420,890
1,421,003
20: 1,421,331
31: 1,421,262
34: 1,421,196
212— 104: 1,421,102
213— 42: 1,421,032
59: 1,421,351
214— 16: 1,420,726
41: 1,420,681
98: 1,420,856
141: 1,421,175
215— 13: 1,421,325
37: 1,420,965
44: 1,420,734
67: 1,421,118
86: 1,420,892
100: 1,421,257
216— 27: 1,420,814
217— 5: 1,420,711
49: 1,420,699
219— 4: 1,420,735
19: 1,420,636
1,421,166
38: 1,420,693
1,420,759
39: 1,420,840
1,421,084
41: 1,420,692
76: 1,420,980
220— 46: 1,420,768
55: 1,420,899
94: 1,420,811
95: 1,420,851
97: 1,420,992
221 64: 1,420,861
74: 1,421,319
101: 1,421,140
223— 54: 1,421,230
224— 29: 1,421,050
226— 84: 1,420,836
229— 1.5: 1,421,114
72: 1,421,240
86: 1,421,227
87: 1,421,027
230— 24: 1,421,309
234— 33: 1,421,352
235— 50: 1,420,879
59: 1,421,201
86: 1,420,695
117: 1,421,070
236— 15: 1,421,281
16: 1,420,704
58: 1,420,718
237— 3: 1,421,315
238— 19: 1,421,342
25: 1,420,974
304: 1,420,703
336: 1,420,749
240— 1: 1,420,829
8.5: 1,421,093
22: 1,421,249
25: 1,421,058
41: 1,420,741
48.4: 1,420,848
1,420,977
78: 1,420,806
241— 6: 1,421,171
16: 1,420,812
242— 7: 1,420,677
69: 1,420,860
84.5: 1,420,804
139: 1,421,099
244— 3: 1,420,763
1,420,865
12: 1,420,805
21: 1,421,234
31: 1,420,620
1,421,280
246— 102: 1,421,252
180: 1,421,005
190: 1,421,078
248: 1,421,023
293: 1,421,251
487: 1,421,188
247— 16: 1,420,694
37: 1,421,168
248— 22: 1,420,724
38: 1,421,340
250— 2: 1,420,629
27: 1,420,845
251— 127: 1,421,184
132: 1,420,898
1,420,994
139: 1,420,664
252— 1,420,754
1,421,271
254— 123: 1,420,831
185: 1,421,183
255— 60: 1,420,919
76: 1,420,918
257— 39: 1,421,221
48: 1,420,916
87: 1,420,841
257— 130: 1,420,917
132: 1,421,120
1,421,174
136: 1,421,255
239: 1,421,247
262: 1,420,878
259— 75: 1,421,016
91: 1,420,963
104: 1,420,767
122: 1,420,774
134: 1,420,773
260— 25: 1,420,900
263— 15: 1,421,259
19: 1,421,256
49: 1,421,212
267— 29: 1,421,223
51: 1,421,307
54: 1,420,680
268— 1: 1,421,002
8: 1,421,177
271— 75: 1,420,869
2: 1,420,668
274— 1: 1,420,928
42: 1,421,045
275— 8: 1,420,716
277— 20: 1,421,119
34: 1,420,662
1,420,663
279— 1: 1,420,794
2: 1,420,682
68: 1,420,780
81: 1,420,893
280— 50: 1,421,110
143: 1,420,691
156: 1,421,239
283— 36: 1,420,828
286— 11: 1,421,193
287— 52: 1,421,100
54: 1,420,669
1,420,671
109: 1,420,670
288— 1: 1,421,356
292— 282: 1,420,912
306: 1,421,330
314: 1,421,033
322: 1,420,968
293— 55: 1,420,854
1,420,855
294— 96: 1,420,621
99: 1,421,159
102: 1,421,266
295— 148: 1,421,316
296— 47: 1,420,993
58: 1,421,336
85: 1,421,181
95: 1,420,779
1,421,182
138: 1,420,710
299— 15: 1,421,296
34: 1,421,038
63: 1,420,722
301— 9: 1,421,189
17: 1,421,096
41: 1,420,871
43: 1,420,870
47: 1,420,712
63: 1,420,651
73: 1,421,128
305— 10: 1,421,270
302— 9: 1,421,080